

Version 4.1	Revision Date: 10/11/2018	SDS Number: 594895-00010	Date of last issue: 10/01/2018 Date of first issue: 04/01/2016		
SECTION	1. IDENTIFICATION				
Produ	uct name	: HONEY KOT	E®		
Manı	ufacturer or supplier's	s details			
Comp Addre	pany name of supplier ess	: 2777 N. Sten	<ul> <li>Bestolife Corporation</li> <li>2777 N. Stemmons Frwy Ste 1800 Dallas TX 75207,</li> </ul>		
Telep Telefa		: 855-243-916	855-243-9164/972-865-8961 214-631-3047		
Emer	gency telephone		CHEMTREC U.S.: 800-424-9300, International 703-527-3887 (24-hours/7 days)		
E-ma	il address	: www.bestolife	www.bestolife.com		
Reco	mmended use of the	chemical and rest	rictions on use		
Reco	mmended use	Offshore indu	bound (Pipe Dope) and Jacking grease for use i		
Restrictions on use			n oxygen lines or in oxygen enriched atmos-		

### GHS classification in accordance with 29 CFR 1910.1200

Eye irritation	:	Category 2A
GHS label elements Hazard pictograms	:	
Signal Word	:	Warning
Hazard Statements	:	H319 Causes serious eye irritation.
Precautionary Statements	:	<b>Prevention:</b> P264 Wash skin thoroughly after handling.
		P280 Wear eye protection/ face protection.
		<ul> <li>P280 Wear eye protection/ face protection.</li> <li><b>Response:</b></li> <li>P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P337 + P313 If eye irritation persists: Get medical advice/ attention.</li> </ul>

None known.



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#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components		
Chemical name	CAS-No.	Concentration (% w/w)
Distillates (petroleum), hydrotreated	64742-52-5	>= 30 - < 50
heavy naphthenic		
Graphite	7782-42-5	>= 10 - < 20
Residual oils (petroleum), hydrotreat-	64742-57-0	>= 10 - < 20
ed		
Talc	14807-96-6	>= 10 - < 20
Copper metal powder	7440-50-8	>= 5 - < 10
Calcium carbonate	471-34-1	>= 5 - < 10
Dolomite	16389-88-1	>= 1 - < 5
Distillates (petroleum), hydrotreated	64742-54-7	>= 1 - < 5
heavy paraffinic		
Calcium oxide	1305-78-8	>= 1 - < 5
Distillates (petroleum), hydrotreated	64742-55-8	>= 1 - < 5
light paraffinic		
Distillates (petroleum), solvent	64742-56-9	>= 1 - < 5
dewaxed light paraffinic; baseoil -		
unspecified		
Distillates (petroleum), solvent-	64742-65-0	>= 1 - < 5
dewaxed heavy paraffinic		
Distillates (petroleum), hydrotreated	64742-53-6	>= 1 - < 5
light naphthenic		
Calcium hydroxide	1305-62-0	>= 1 - < 5
Acetic acid	64-19-7	>= 1 - < 5
Quartz	14808-60-7	>= 1 - < 5
Calcium bis(di C8-C10, branched, C9	57855-77-3	>= 1 - < 5
rich, alkylnaphthalenesulphonate)		

Actual concentration is withheld as a trade secret

### SECTION 4. FIRST AID MEASURES

General advice	<ul> <li>In the case of accident or if you feel unwell, seek medical advice immediately.</li> <li>When symptoms persist or in all cases of doubt seek medical advice.</li> </ul>
If inhaled	: If inhaled, remove to fresh air. Get medical attention if symptoms occur.
In case of skin contact	<ul> <li>In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.</li> </ul>
In case of eye contact	<ul> <li>In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.</li> <li>If easy to do, remove contact lens, if worn.</li> <li>Get medical attention.</li> </ul>
If swallowed	: If swallowed, DO NOT induce vomiting.



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	: important symptoms effects, both acute and ved	:		tion if symptoms occur. oughly with water. ye irritation.
Prote	ection of first-aiders	:	and use the recor when the potentia	ers should pay attention to self-protection, nmended personal protective equipment Il for exposure exists.
Note	s to physician	:	Treat symptomati	cally and supportively.
SECTION	I 5. FIRE-FIGHTING ME	ASL	IRES	
Suita	ble extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (C Dry chemical	
Unsu medi	uitable extinguishing a	:	None known.	
Spec fighti	cific hazards during fire ng	:	Exposure to comb	pustion products may be a hazard to health.
Haza ucts	ardous combustion prod-	:	Carbon oxides Metal oxides Oxides of phosph Sulfur oxides Silicon oxides	orus
Spec ods	ific extinguishing meth-	:	cumstances and t Use water spray t	measures that are appropriate to local cir- the surrounding environment. to cool unopened containers. ged containers from fire area if it is safe to c
	cial protective equipment re-fighters	:	In the event of fire	e, wear self-contained breathing apparatus. tective equipment.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency procedures	:	Use personal protective equipment. Follow safe handling advice and personal protective equipment recommendations.
Environmental precautions	:	Discharge into the environment must be avoided. Prevent further leakage or spillage if safe to do so. Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for containment and cleaning up	:	Sweep up or vacuum up spillage and collect in suitable container for disposal. Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.



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### SECTION 7. HANDLING AND STORAGE

Technical measures	:	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Advice on safe handling	:	Do not get on skin or clothing. Do not swallow. Do not get in eyes. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment Take care to prevent spills, waste and minimize release to the environment.
Conditions for safe storage	:	Keep in properly labeled containers. Store in accordance with the particular national regulations.
Materials to avoid	:	Do not store with the following product types: Strong oxidizing agents

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	TWA (Mist)	5 mg/m³	OSHA Z-1
		TWA (Inhal- able fraction)	5 mg/m³	ACGIH
		TWA (Mist)	5 mg/m <sup>3</sup>	NIOSH REL
		ST (Mist)	10 mg/m <sup>3</sup>	NIOSH REL
Graphite	7782-42-5	TWA (Res- pirable)	2.5 mg/m <sup>3</sup>	NIOSH REL
		TWA (Res- pirable frac- tion)	2 mg/m³	ACGIH
		TWA (Dust)	15 Million particles per cubic foot	OSHA Z-3
Residual oils (petroleum), hydrotreated	64742-57-0	TWA (Mist)	5 mg/m³	NIOSH REL
		ST (Mist)	10 mg/m <sup>3</sup>	NIOSH REL
		TWA (Mist)	5 mg/m <sup>3</sup>	OSHA Z-1
		TWA (Inhal- able fraction)	5 mg/m³	ACGIH
Talc	14807-96-6	TWA (Dust)	20 Million particles per cubic foot	OSHA Z-3
		TWA (Res- pirable)	2 mg/m <sup>3</sup>	NIOSH REL
		TWA (Res- pirable frac- tion)	2 mg/m³	ACGIH

### Ingredients with workplace control parameters



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Coppe	er metal powder	7440-50-8	TWA (Dust and mist)	1 mg/m³ (Copper)	ACGIH
			TWA (Fumes)	0.2 mg/m³ (Copper)	ACGIH
			TWA (Dust)	1 mg/m³ (Copper)	NIOSH R
			TWA (Mist)	1 mg/m³ (Copper)	NIOSH R
			TWA (dusts and mists)	1 mg/m³ (Copper)	OSHA Z-
			TWA (Fumes)	0.1 mg/m³ (Copper)	OSHA Z-'
Calciu	ım carbonate	471-34-1	TWA (Res- pirable)	5 mg/m³ (Calcium car- bonate)	NIOSH R
			TWA (total)	10 mg/m³ (Calcium car- bonate)	NIOSH R
Dolom	nite	16389-88-1	TWA (Res- pirable)	5 mg/m³ (Calcium car- bonate)	NIOSH R
			TWA (total)	10 mg/m³ (Calcium car- bonate)	NIOSH R
	ates (petroleum), treated heavy paraffinic	64742-54-7	TWA (Mist)	5 mg/m <sup>3</sup>	OSHA Z-
			TWA (Mist)	5 mg/m³	NIOSH R
			ST (Mist)	10 mg/m <sup>3</sup>	NIOSH R
Calciu	ım oxide	1305-78-8	TWA	2 mg/m <sup>3</sup>	ACGIH
			TWA	2 mg/m <sup>3</sup>	NIOSH R
			TWA	5 mg/m³	OSHA Z-
	ates (petroleum), treated light paraffinic	64742-55-8	TWA (Mist)	5 mg/m³	OSHA Z-
			TWA (Inhal- able fraction)	5 mg/m³	ACGIH
			TWA (Mist)	5 mg/m <sup>3</sup>	NIOSH R
<b>D</b>		0.47.40.55.5	ST (Mist)	10 mg/m <sup>3</sup>	NIOSH R
dewax	ates (petroleum), solvent ked light paraffinic; il - unspecified	64742-56-9	TWA (Mist)	5 mg/m³	OSHA Z-
			TWA (Inhal- able fraction)	5 mg/m³	ACGIH
			TWA (Mist)	5 mg/m³	NIOSH R
	· · · · · · · · · · · · · · · · · · ·		ST (Mist)	10 mg/m <sup>3</sup>	NIOSH R
	ates (petroleum), solvent- ked heavy paraffinic	64742-65-0	TWA (Mist)	5 mg/m <sup>3</sup>	OSHA Z-
			TWA (Inhal- able fraction)	5 mg/m <sup>3</sup>	ACGIH
			TWA (Mist)	5 mg/m <sup>3</sup>	NIOSH R
D:	- + / +	0.4740 50 0	ST (Mist)	10 mg/m <sup>3</sup>	NIOSH R
	ates (petroleum), treated light naphthenic	64742-53-6	TWA (Mist)	5 mg/m <sup>3</sup>	OSHA Z-
			TWA (Inhal-	5 mg/m³	ACGIH



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			able fraction)		
			TWA (Mist)	5 mg/m <sup>3</sup>	NIOSH REL
			ST (Mist)	10 mg/m <sup>3</sup>	NIOSH REL
Calci	um hydroxide	1305-62-0	TWA	5 mg/m³	ACGIH
			TWA (total dust)	15 mg/m³	OSHA Z-1
			TWA (respir- able fraction)	5 mg/m³	OSHA Z-1
			TWA	5 mg/m³	NIOSH REL
Acetio	c acid	64-19-7	TWA	10 ppm	ACGIH
			STEL	15 ppm	ACGIH
			ST	15 ppm 37 mg/m³	NIOSH REL
			TWA	10 ppm 25 mg/m³	NIOSH REL
			TWA	10 ppm 25 mg/m <sup>3</sup>	OSHA Z-1
Quart	tz	14808-60-7	TWA (Res- pirable dust)	0.05 mg/m <sup>3</sup>	OSHA Z-1
			TWA (respir- able)	10 mg/m3 / %SiO2+2	OSHA Z-3
			TWA (respir- able)	250 mppcf / %SiO2+5	OSHA Z-3
			TWÁ (Res- pirable frac- tion)	0.025 mg/m³ (Silica)	ACGIH
			TWA (Res- pirable dust)	0.05 mg/m³ (Silica)	NIOSH REL

These substance(s) are inextricably bound in the product and therefore do not contribute to a dust inhalation hazard.

Quartz

Engineering measures	:	Minimize workplace exposure concentrations. Dust formation may be relevant in the processing of this product. In addition to substance-specific OELs, general limitations of concentrations of particulates in the air at workplaces have to be considered in workplace risk assessment. Relevant limits include: OSHA PEL for Particulates Not Otherwise Regulated of 15 mg/m3 - total dust, 5 mg/m3 - respirable fraction; and ACGIH TWA for Particles (insoluble or poorly soluble) Not Otherwise Specified of 3 mg/m3 - respirable particles, 10 mg/m3 -
		inhalable particles.

### Personal protective equipment

Respiratory protection	: General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where
	concentrations are above recommended limits or are
	unknown, appropriate respiratory protection should be worn.
	Follow OSHA respirator regulations (29 CFR 1910.134) and
	use NIOSH/MSHA approved respirators. Protection provided
	by air purifying respirators against exposure to any
	hazardous chemical is limited. Use a positive pressure air



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Hand	protection	releas circum	ed respirator if there is any potential for uncontrolled e, exposure levels are unknown, or any other stance where air purifying respirators may not provide ate protection.
M	aterial	: Chem	cal-resistant gloves
R	emarks	on the time is For sp resista gloves	e gloves to protect hands against chemicals depending concentration specific to place of work. Breakthrough not determined for the product. Change gloves often! ecial applications, we recommend clarifying the nce to chemicals of the aforementioned protective with the glove manufacturer. Wash hands before and at the end of workday.
Eye p	protection	: Wear	the following personal protective equipment: goggles
Skin	and body protection	: Select resista potent Skin c	appropriate protective clothing based on chemical nce data and an assessment of the local exposure
Hygie	ene measures	locate When	e that eye flushing systems and safety showers are d close to the working place. using do not eat, drink or smoke. contaminated clothing before re-use.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Color Odor Odor Threshold	: : :	Viscous semi-solid copper Petroleum No data available
рН	:	Not applicable (not an aqueous solution)
Melting point/freezing point	:	No data available
Initial boiling point and boiling	:	No data available
range Flash point	:	>= 392 °F / >= 200 °C
		Method: ASTM D 92, Cleveland open cup Distillates (petroleum), hydrotreated heavy naphthenic
Evaporation rate	:	Distillates (petroleum), hydrotreated heavy naphthenic
Evaporation rate Flammability (solid, gas)		Distillates (petroleum), hydrotreated heavy naphthenic Not applicable
	:	Distillates (petroleum), hydrotreated heavy naphthenic Not applicable Not classified as a flammability hazard



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١	Vapor pressure		:	Not applicable	
F	Relative vapor density		:	Not applicable	
F	Relative	e density	:	1.3	
C	Density		:	No data available	2
S	Solubility(ies) Water solubility		:	negligible	
	Partition coefficient: n- octanol/water		:	Not applicable	
		ition temperature	:	No data available	2
[	Decomposition temperature		:	No data available	9
١	Viscosity Viscosity, dynamic		:	No data available	9
	Visc	osity, kinematic	:	Not applicable	
F	Flow tin	ne	:	No data available	9
E	Explosi	sive properties		Not explosive	
C	Oxidizir	ng properties	:	The substance o	r mixture is not classified as oxidizing.
			No data available No data available	-	

#### SECTION 10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reac- tions	:	Not classified as a reactivity hazard. Stable under normal conditions. Can react with strong oxidizing agents.
Conditions to avoid Incompatible materials Hazardous decomposition products	::	Oxidizing agents

### SECTION 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

Skin contact Ingestion Eye contact

### Acute toxicity

Not classified based on available information.



ersion 1	Revision Date: 10/11/2018	SDS Number: 594895-00010	Date of last issue: 10/01/2018 Date of first issue: 04/01/2016
<u>Comp</u>	oonents:		
Distil	lates (petroleum), hy	/drotreated heavy nag	ohthenic:
Acute	oral toxicity		5,000 mg/kg · Test Guideline 401 ed on data from similar materials
Acute	inhalation toxicity	Assessment: TI tion toxicity	4 h
Acute	dermal toxicity		> 5,000 mg/kg Test Guideline 402 ed on data from similar materials
Grapl	hite:		
Acute	oral toxicity		2,000 mg/kg Test Guideline 423 he substance or mixture has no acute oral to:
Acute	inhalation toxicity	: LC50 (Rat): > 2 Exposure time: Test atmospher Method: OECD	4 h
Resid	lual oils (petroleum)	, hydrotreated:	
Acute	oral toxicity		5,000 mg/kg Test Guideline 401 ed on data from similar materials
Acute	inhalation toxicity	Assessment: TI tion toxicity	4 h
Acute	dermal toxicity	: LD50 (Rabbit): Method: OECD	> 5,000 mg/kg Test Guideline 402
Talc:			
Acute	oral toxicity	: LD50 (Rat): > 5 Remarks: Base	i,000 mg/kg ed on data from similar materials
	er metal powder:		
Acute	oral toxicity	: LD50 (Rat): > 2	2,500 mg/kg



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			D Test Guideline 423 The substance or mixture has no acute oral tox-
Acute	e inhalation toxicity	Method: OEC	
Acute	e dermal toxicity		2,000 mg/kg D Test Guideline 402 The substance or mixture has no acute dermal
Calc	ium carbonate:		
Acute	e oral toxicity		2,000 mg/kg D Test Guideline 420 The substance or mixture has no acute oral tox-
Acute	e inhalation toxicity	Method: OEC	
Acute	e dermal toxicity		2,000 mg/kg D Test Guideline 402 The substance or mixture has no acute dermal
Dolo	mite:		
	e oral toxicity	Assessment: icity	2,000 mg/kg D Test Guideline 420 The substance or mixture has no acute oral tox- sed on data from similar materials
Acute	e inhalation toxicity	Assessment: tion toxicity	
Acute	e dermal toxicity	Assessment: toxicity	2,000 mg/kg D Test Guideline 402 The substance or mixture has no acute dermal sed on data from similar materials



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Distillates (petroleum)	), hydrotreated heavy paraffinic:
Acute oral toxicity	: LD50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline 401 Remarks: Based on data from similar materials
Acute inhalation toxicity	<ul> <li>LC50 (Rat): &gt; 5.53 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Assessment: The substance or mixture has no acute inhala tion toxicity Remarks: Based on data from similar materials</li> </ul>
Acute dermal toxicity	: LD50 (Rabbit): > 5,000 mg/kg Method: OECD Test Guideline 402 Remarks: Based on data from similar materials
Calcium oxide:	
Acute oral toxicity	: LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 425
Acute inhalation toxicity	<ul> <li>(Rat): &gt; 5 mg/l</li> <li>Exposure time: 4 h</li> <li>Test atmosphere: dust/mist</li> <li>Method: OECD Test Guideline 436</li> <li>Remarks: Based on data from similar materials</li> </ul>
Acute dermal toxicity	<ul> <li>LD50 (Rabbit): &gt; 2,500 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute derma toxicity Remarks: Based on data from similar materials</li> </ul>
Distillates (petroleum)	), hydrotreated light paraffinic:
Acute oral toxicity	: LD50 (Rat): > 5,000 mg/kg Remarks: Based on data from similar materials
Acute inhalation toxicity	<ul> <li>LC50 (Rat): &gt; 4 mg/l</li> <li>Exposure time: 4 h</li> <li>Test atmosphere: dust/mist</li> <li>Assessment: The substance or mixture has no acute inhala tion toxicity</li> </ul>
Acute dermal toxicity	: LD50 (Rabbit): > 5,000 mg/kg Remarks: Based on data from similar materials
Distillates (petroleum)	), solvent dewaxed light paraffinic; baseoil - unspecified:
Acute oral toxicity	: LD50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline 401
Acute inhalation toxicity	<ul> <li>LC50 (Rat): &gt; 5.53 mg/l</li> <li>Exposure time: 4 h</li> <li>Test atmosphere: dust/mist</li> </ul>



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		Assessment tion toxicity	CD Test Guideline 403 t: The substance or mixture has no acute inhala- ased on data from similar materials				
Acute	e dermal toxicity		: LD50 (Rabbit): > 5,000 mg/kg Method: OECD Test Guideline 402				
Disti	llates (petroleum), so	olvent-dewaxed he	avy paraffinic:				
Acute	ə oral toxicity		> 5,000 mg/kg CD Test Guideline 401 ased on data from similar materials				
Acute	e inhalation toxicity	Method: OE Assessment tion toxicity					
Acute	e dermal toxicity	Method: OE	oit): > 5,000 mg/kg CD Test Guideline 402 ased on data from similar materials				
Disti	llates (petroleum), h	/drotreated light n	aphthenic:				
Acute	e oral toxicity	: LD50 (Rat):					
		Method: OE	CD Test Guideline 401				
Acute	e inhalation toxicity	: LC50 (Rat): Exposure tir Test atmosp Method: OE	> 5.53 mg/l				
	e inhalation toxicity e dermal toxicity	<ul> <li>LC50 (Rat): Exposure tir Test atmosp Method: OE Assessment tion toxicity</li> <li>LD50 (Rabb</li> </ul>	> 5.53 mg/l me: 4 h bhere: dust/mist CD Test Guideline 403				
Acute		<ul> <li>LC50 (Rat): Exposure tir Test atmosp Method: OE Assessment tion toxicity</li> <li>LD50 (Rabb Assessment</li> </ul>	> 5.53 mg/l me: 4 h ohere: dust/mist iCD Test Guideline 403 t: The substance or mixture has no acute inhala- bit): > 2,000 mg/kg				
Acute <b>Calc</b> i	e dermal toxicity	<ul> <li>LC50 (Rat): Exposure tir Test atmosp Method: OE Assessment tion toxicity</li> <li>LD50 (Rabb Assessment toxicity</li> <li>LD50 (Rat): Method: OE</li> </ul>	> 5.53 mg/l me: 4 h ohere: dust/mist CD Test Guideline 403 t: The substance or mixture has no acute inhala- bit): > 2,000 mg/kg t: The substance or mixture has no acute dermal				
Acute <b>Calci</b> Acute	e dermal toxicity ium hydroxide:	<ul> <li>LC50 (Rat): Exposure tir Test atmosp Method: OE Assessment tion toxicity</li> <li>LD50 (Rabb Assessment toxicity</li> <li>LD50 (Rat): Method: OE Assessment icity</li> <li>(Rat): &gt; 6.0 Exposure tir Test atmosp Method: OE</li> </ul>	<ul> <li>&gt; 5.53 mg/l me: 4 h ohere: dust/mist CD Test Guideline 403 t: The substance or mixture has no acute inhala- bit): &gt; 2,000 mg/kg t: The substance or mixture has no acute dermal</li> <li>&gt; 2,000 mg/kg CD Test Guideline 425 t: The substance or mixture has no acute oral tox</li> <li>4 mg/l</li> </ul>				



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		Metho	od: OECD Test Guideline 402
		Asses	sment: The substance or mixture has no acute derma
		toxicit	
		Rema	rks: Based on data from similar materials
Aceti	c acid:		
Acute	inhalation toxicity	: Asses	sment: Corrosive to the respiratory tract.
Quart	tz:		
Acute	oral toxicity	: LD50	(Rat): > 5,000 mg/kg
Calci	um bis(di C8-C10, bı	anched, C9	rich, alkylnaphthalenesulphonate):
	oral toxicity		(Rat): > 2,500 mg/kg
			rks: Based on data from similar materials
Acute	dermal toxicity		(Rabbit): > 5,000 mg/kg
		Rema	rks: Based on data from similar materials
Skin	corrosion/irritation		
Not cl	assified based on ava	ailable inform	ation.
<u>Com</u>	<u>oonents:</u>		
Distil	lates (petroleum), hy	drotreated l	ieavy naphthenic:
Speci	es	: Rabb	t
Resul		: No sk	in irritation
Rema	arks	: Based	d on data from similar materials
Grap	hite:		
Speci	es	: Rabb	t
Metho	bd	: OECI	) Test Guideline 404
Resul	lt	: No sk	in irritation
Resid	lual oils (petroleum)	, hydrotreate	ed:
Speci		: Rabb	
Resul	lt	: No sk	in irritation
Talc:			
<b>Talc:</b> Speci	es	: Rabb	-
			t in irritation
Speci Resul			-
Speci Resul <b>Copp</b> Speci	t <b>er metal powder:</b> es	: No sk	in irritation
Speci Resul Copp Speci Metho	lt <b>er metal powder:</b> es od	: No sk : Rabb : OECI	in irritation t ) Test Guideline 404
Speci Resul <b>Copp</b> Speci	lt <b>er metal powder:</b> es od	: No sk : Rabb : OECI	in irritation
Speci Resul Copp Speci Metho Resul	lt <b>er metal powder:</b> es od	: No sk : Rabb : OECI	in irritation t ) Test Guideline 404
Speci Resul Copp Speci Metho Resul	lt er metal powder: es od lt um carbonate:	: No sk : Rabb : OECI	in irritation t ) Test Guideline 404 in irritation
Speci Resul Copp Speci Metho Resul	lt er metal powder: es od lt um carbonate: es	: No sk : Rabb : OECI : No sk : Rabb	in irritation t ) Test Guideline 404 in irritation



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Resul	lt	: No skin irr	itation
Dolor	nite:		
Speci	es	: Rabbit	
Metho	bd	: OECD Te	st Guideline 404
Resul	-	: No skin irr	
Rema	arks	: Based on	data from similar materials
Distil	lates (petroleum), hy	drotreated heav	y paraffinic:
Speci	es	: Rabbit	
Resu	lt	: No skin irr	
Rema	arks	: Based on	data from similar materials
Calci	um oxide:		
Speci	es	: Rabbit	
Metho	bd		st Guideline 404
Resul	-	: Skin irritat	
Rema	arks	: Based on	data from similar materials
Distil	lates (petroleum), hy	drotreated light	paraffinic:
Speci	es	: Rabbit	
Resul	lt	: No skin irr	itation
Distil	lates (petroleum), so	olvent dewaxed l	ight paraffinic; baseoil - unspecified:
Speci	es	: Rabbit	
Resul	t	: No skin irr	itation
Distil	lates (petroleum), so	lvent-dewaxed l	neavy paraffinic:
Speci	es	: Rabbit	
Resul		: No skin irr	itation
Rema	arks	: Based on	data from similar materials
Distil	lates (petroleum), hy	drotreated light	naphthenic:
Speci		: Rabbit	-
Resul		: No skin irr	itation
Calci	um hydroxide:		
Speci	-	: Rabbit	
Metho			st Guideline 404
Resul		: Skin irritat	
Rema			data from similar materials
Aceti	c acid:		
Speci		: Rabbit	
Metho			st Guideline 404
Resul			after 3 minutes or less of exposure

### Calcium bis(di C8-C10, branched, C9 rich, alkylnaphthalenesulphonate):



rsion	Revision Date: 10/11/2018	SDS Number: 594895-00010	Date of last issue: 10/01/2018 Date of first issue: 04/01/2016
Speci	es	: Rabbit	
Resul		: Skin irritatior	
Rema	ırks	: Based on da	ta from similar materials
Serio	us eye damage/eye	irritation	
Cause	es serious eye irritatio	on.	
<u>Produ</u>	uct:		
Resul	t	: Irritation to e	yes, reversing within 21 days
Comp	oonents:		
Distil	lates (petroleum), hy	/drotreated heavy i	naphthenic:
Speci		: Rabbit	
Resul		: No eye irritat	
Rema	arks	: Based on da	ta from similar materials
Grapi	hite:		
Speci		: Rabbit	
Resul		: No eye irritat	
Metho	bd	: OECD Test (	Guideline 405
Resid	lual oils (petroleum)	, hydrotreated:	
Speci		: Rabbit	
Resul	t	: No eye irritat	ion
Talc:			
Speci	es	: Rabbit	
Resul		: No eye irritat	ion
Сорр	er metal powder:		
Speci		: Rabbit	
Resul		: No eye irritat	
Metho	bd	: OECD Test (	Guideline 405
Calci	um carbonate:		
Speci		: Rabbit	
Resul		: No eye irritat	
Metho	bd	: OECD Test (	Guideline 405
Dolor	nite:		
Speci		: Rabbit	
Resul		: No eye irritat	
Metho			Guideline 405
Rema	IIKS	: based on da	ta from similar materials
Distil	lates (petroleum), hy	/drotreated heavy	paraffinic:
Speci		: Rabbit	
Resul	t	: No eye irritat	ion



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Metho	bd	: OECD Test Guideline 405
Rema		: Based on data from similar materials
Calci	um oxide:	
Speci	00	: Rabbit
Resul		
Metho		: Irreversible effects on the eye : OECD Test Guideline 405
		ydrotreated light paraffinic:
Speci		: Rabbit
Resul	t	: No eye irritation
Distil	lates (petroleum), so	olvent dewaxed light paraffinic; baseoil - unspecified:
Speci	es	: Rabbit
Resul		: No eye irritation
Metho	bd	: OECD Test Guideline 405
Distil Speci		blvent-dewaxed heavy paraffinic: : Rabbit
Resul		
	=	: No eye irritation
Metho Rema		: OECD Test Guideline 405 : Based on data from similar materials
Speci	es	ydrotreated light naphthenic: : Rabbit
	es	
Speci Resul	es	: Rabbit
Speci Resul	es t um hydroxide:	: Rabbit
Speci Resul <b>Calci</b>	es t um hydroxide: es	<ul> <li>Rabbit</li> <li>No eye irritation</li> <li>Rabbit</li> <li>Irreversible effects on the eye</li> </ul>
Speci Resul Calcie Speci	es t <b>um hydroxide:</b> es t	<ul> <li>Rabbit</li> <li>No eye irritation</li> <li>Rabbit</li> </ul>
Speci Resul Calcin Speci Resul Metho	es t <b>um hydroxide:</b> es t	<ul> <li>Rabbit</li> <li>No eye irritation</li> <li>Rabbit</li> <li>Irreversible effects on the eye</li> </ul>
Speci Resul Speci Resul Metho	es t um hydroxide: es t od c acid:	<ul> <li>Rabbit</li> <li>No eye irritation</li> <li>Rabbit</li> <li>Irreversible effects on the eye</li> <li>OECD Test Guideline 405</li> </ul>
Speci Resul Calcin Speci Resul Metho	es t um hydroxide: es t od c acid: es	<ul> <li>Rabbit</li> <li>No eye irritation</li> <li>Rabbit</li> <li>Irreversible effects on the eye</li> </ul>
Specia Resul Specia Resul Metho Specia Resul	es t um hydroxide: es t c acid: es t	<ul> <li>Rabbit</li> <li>No eye irritation</li> <li>Rabbit</li> <li>Irreversible effects on the eye</li> <li>OECD Test Guideline 405</li> <li>Rabbit</li> <li>Irreversible effects on the eye</li> </ul>
Specia Resul Specia Resul Methor Specia Resul Calcin	es t um hydroxide: es t od c acid: es t um bis(di C8-C10, bi	<ul> <li>Rabbit</li> <li>No eye irritation</li> <li>Rabbit</li> <li>Irreversible effects on the eye</li> <li>OECD Test Guideline 405</li> <li>Rabbit</li> <li>Irreversible effects on the eye</li> </ul>
Specia Resul Specia Resul Metho Specia Resul Calcin Specia	es t um hydroxide: es t c acid: es t um bis(di C8-C10, bi es	<ul> <li>Rabbit</li> <li>No eye irritation</li> <li>Rabbit</li> <li>Irreversible effects on the eye</li> <li>OECD Test Guideline 405</li> <li>Rabbit</li> <li>Irreversible effects on the eye</li> <li>ranched, C9 rich, alkylnaphthalenesulphonate):</li> <li>Rabbit</li> </ul>
Specia Resul Specia Resul Metho Specia Resul Calcin Specia Resul	es t um hydroxide: es t c acid: es t um bis(di C8-C10, bi es t	<ul> <li>Rabbit</li> <li>No eye irritation</li> <li>Rabbit</li> <li>Irreversible effects on the eye</li> <li>OECD Test Guideline 405</li> <li>Rabbit</li> <li>Irreversible effects on the eye</li> <li>ranched, C9 rich, alkylnaphthalenesulphonate): <ul> <li>Rabbit</li> <li>Irritation to eyes, reversing within 21 days</li> </ul> </li> </ul>
Specia Resul Specia Resul Metho Specia Resul Calcin Specia	es t um hydroxide: es t c acid: es t um bis(di C8-C10, bi es t	<ul> <li>Rabbit</li> <li>No eye irritation</li> <li>Rabbit</li> <li>Irreversible effects on the eye</li> <li>OECD Test Guideline 405</li> <li>Rabbit</li> <li>Irreversible effects on the eye</li> <li>ranched, C9 rich, alkylnaphthalenesulphonate):</li> <li>Rabbit</li> </ul>
Specia Resul Specia Resul Metho Specia Resul Calcin Specia Resul Resul	es t um hydroxide: es t c acid: es t um bis(di C8-C10, bi es t	<ul> <li>Rabbit</li> <li>No eye irritation</li> <li>Rabbit</li> <li>Irreversible effects on the eye</li> <li>OECD Test Guideline 405</li> <li>Rabbit</li> <li>Irreversible effects on the eye</li> <li>ranched, C9 rich, alkylnaphthalenesulphonate):</li> <li>Rabbit</li> <li>Irritation to eyes, reversing within 21 days</li> <li>Based on data from similar materials</li> </ul>
Specia Resul Specia Resul Metho Specia Resul Resul Rema Respi	es t um hydroxide: es t c acid: es t um bis(di C8-C10, be es t urks	<ul> <li>Rabbit</li> <li>No eye irritation</li> <li>Rabbit</li> <li>Irreversible effects on the eye</li> <li>OECD Test Guideline 405</li> <li>Rabbit</li> <li>Irreversible effects on the eye</li> <li>ranched, C9 rich, alkylnaphthalenesulphonate):</li> <li>Rabbit</li> <li>Irritation to eyes, reversing within 21 days</li> <li>Based on data from similar materials</li> </ul>
Specia Resul Specia Resul Metho Specia Resul Resul Resul Resul Rema Skin s	es t um hydroxide: es t c acid: es t um bis(di C8-C10, bi es t urks iratory or skin sensi	<ul> <li>Rabbit</li> <li>No eye irritation</li> <li>Rabbit</li> <li>Irreversible effects on the eye</li> <li>OECD Test Guideline 405</li> <li>Rabbit</li> <li>Irreversible effects on the eye</li> <li>ranched, C9 rich, alkylnaphthalenesulphonate):</li> <li>Rabbit</li> <li>Irritation to eyes, reversing within 21 days</li> <li>Based on data from similar materials</li> </ul>
Specia Resul Specia Resul Metho Specia Resul Resul Resul Rema Respi Skin s Not cl	es t um hydroxide: es t c acid: es t um bis(di C8-C10, bi es t iratory or skin sensi sensitization	<ul> <li>Rabbit</li> <li>No eye irritation</li> <li>Rabbit</li> <li>Irreversible effects on the eye</li> <li>OECD Test Guideline 405</li> <li>Rabbit</li> <li>Irreversible effects on the eye</li> <li>ranched, C9 rich, alkylnaphthalenesulphonate):</li> <li>Rabbit</li> <li>Irritation to eyes, reversing within 21 days</li> <li>Based on data from similar materials</li> </ul>



sion	Revision Date: 10/11/2018	SDS Number: 594895-00010	Date of last issue: 10/01/2018 Date of first issue: 04/01/2016
Comp	onents:		
Distill	ates (petroleum), h	ydrotreated heavy na	ohthenic:
Test T	ype	: Buehler Test	
	s of exposure	: Skin contact	
Specie		: Guinea pig	
Result	t	: negative	
Rema	rks	: Based on data	from similar materials
Graph	nite:		
Test T	vpe	: Local lymph no	de assay (LLNA)
	s of exposure	: Skin contact	
Specie		: Mouse	
Result		: negative	
Resid	ual oils (petroleum)	, hydrotreated:	
Test T		: Maximization T	est
	s of exposure	: Skin contact	
Specie		: Guinea pig	
Result		: negative	
Talc:			
Route	s of exposure	: Skin contact	
Specie		: Humans	
Result		: negative	
_		-	
	er metal powder:		
Test T		: Maximization T	est
	s of exposure	: Skin contact	
Specie		: Guinea pig	
Metho		: OECD Test Gu	ideline 406
Result	t	: negative	
Calciu	um carbonate:		
Test T			de assay (LLNA)
	s of exposure	: Skin contact	
Specie		: Mouse	
Metho		: OECD Test Gu	ideline 429
Result	t	: negative	
Dolon	nite:		
Test T		: Local lymph no	de assay (LLNA)
Route	s of exposure	: Skin contact	
Specie	es	: Mouse	
Metho	d	: OECD Test Gu	ideline 429
Result	t	: negative	
Rema	rks	: Based on data	from similar materials
Distill	ates (petroleum), h	ydrotreated heavy pa	raffinic:
	ype	: Buehler Test	



sion	Revision Date: 10/11/2018	SDS Number: 594895-00010	Date of last issue: 10/01/2018 Date of first issue: 04/01/2016
Route	s of exposure	: Skin contact	
Specie	-	: Guinea pig	
Metho		: OECD Test Guide	eline 406
Result	ł	: negative	
Rema		•	m similar materials
Calciu	um oxide:		
Test T		: Local lymph node	assav (LLNA)
	s of exposure	: Skin contact	
Specie	-	: Mouse	
Metho			Nino 120
		: OECD Test Guide	anne 429
Result		: negative	
Rema	rks	: Based on data fro	m similar materials
Distill	ates (petroleum), h	ydrotreated light paraffi	nic:
Test T	уре	: Buehler Test	
	s of exposure	: Skin contact	
Specie	-	: Guinea pig	
Metho		: OECD Test Guide	eline 406
Result		: negative	
Rema	-		m similar materials
Distill	ates (petroleum), so	olvent dewaxed light pa	raffinic; baseoil - unspecified:
Test T Route Specie Metho Result	ype s of exposure es d t	olvent dewaxed light par : Buehler Test : Skin contact : Guinea pig : OECD Test Guide : negative olvent-dewaxed heavy p	eline 406
Test T Route Specie Metho Result	Type s of exposure es od t t ates (petroleum), so	<ul> <li>Buehler Test</li> <li>Skin contact</li> <li>Guinea pig</li> <li>OECD Test Guide</li> <li>negative</li> </ul>	eline 406
Test T Route Specie Metho Result <b>Distill</b> Test T	Type s of exposure es od t t ates (petroleum), so Type	: Buehler Test : Skin contact : Guinea pig : OECD Test Guide : negative	eline 406
Test T Route Specie Metho Result <b>Distill</b> Test T Route	Type s of exposure es od t <b>ates (petroleum), so</b> Type s of exposure	<ul> <li>Buehler Test</li> <li>Skin contact</li> <li>Guinea pig</li> <li>OECD Test Guide</li> <li>negative</li> </ul> <b>olvent-dewaxed heavy p</b> <ul> <li>Buehler Test</li> <li>Skin contact</li> </ul>	eline 406
Test T Route Specie Metho Result <b>Distill</b> Test T Route Specie	Type s of exposure es d t <b>ates (petroleum), so</b> Type s of exposure es	<ul> <li>Buehler Test</li> <li>Skin contact</li> <li>Guinea pig</li> <li>OECD Test Guide</li> <li>negative</li> </ul> Olvent-dewaxed heavy p <ul> <li>Buehler Test</li> <li>Skin contact</li> <li>Guinea pig</li> </ul>	eline 406 araffinic:
Test T Route Specie Metho Result <b>Distill</b> Test T Route Specie Metho	ype s of exposure es d t <b>ates (petroleum), so</b> ype s of exposure es	<ul> <li>Buehler Test</li> <li>Skin contact</li> <li>Guinea pig</li> <li>OECD Test Guide</li> <li>negative</li> </ul> Olvent-dewaxed heavy p <ul> <li>Buehler Test</li> <li>Skin contact</li> <li>Guinea pig</li> <li>OECD Test Guide</li> </ul>	eline 406 araffinic:
Test T Route Specie Metho Result <b>Distill</b> Test T Route Specie	Type s of exposure es d t <b>ates (petroleum), so</b> Type s of exposure es od	<ul> <li>Buehler Test</li> <li>Skin contact</li> <li>Guinea pig</li> <li>OECD Test Guide</li> <li>negative</li> </ul> <b>olvent-dewaxed heavy p</b> <ul> <li>Buehler Test</li> <li>Skin contact</li> <li>Guinea pig</li> <li>OECD Test Guide</li> <li>negative</li> </ul>	eline 406 araffinic:
Test T Route Specie Metho Result <b>Distill</b> Test T Route Specie Metho Result Rema	Type s of exposure es ad t ates (petroleum), so Type s of exposure es ad t rks	<ul> <li>Buehler Test</li> <li>Skin contact</li> <li>Guinea pig</li> <li>OECD Test Guide</li> <li>negative</li> </ul> <b>olvent-dewaxed heavy p</b> <ul> <li>Buehler Test</li> <li>Skin contact</li> <li>Guinea pig</li> <li>OECD Test Guide</li> <li>negative</li> <li>Based on data from</li> </ul>	eline 406 <b>araffinic:</b> eline 406 m similar materials
Test T Route Specie Metho Result Test T Route Specie Metho Result Rema	ype s of exposure es d t <b>ates (petroleum), so</b> ype s of exposure es d t rks	<ul> <li>Buehler Test</li> <li>Skin contact</li> <li>Guinea pig</li> <li>OECD Test Guide</li> <li>negative</li> </ul> olvent-dewaxed heavy p <ul> <li>Buehler Test</li> <li>Skin contact</li> <li>Guinea pig</li> <li>OECD Test Guide</li> <li>negative</li> <li>Based on data fro</li> </ul>	eline 406 <b>araffinic:</b> eline 406 m similar materials
Test T Route Specie Metho Result Test T Route Specie Metho Result Rema Distill Test T	ype s of exposure es d t <b>ates (petroleum), so</b> ype s of exposure es d t rks <b>ates (petroleum), h</b> y ype	<ul> <li>Buehler Test</li> <li>Skin contact</li> <li>Guinea pig</li> <li>OECD Test Guide</li> <li>negative</li> </ul> olvent-dewaxed heavy p <ul> <li>Buehler Test</li> <li>Skin contact</li> <li>Guinea pig</li> <li>OECD Test Guide</li> <li>negative</li> <li>Based on data fro</li> </ul> ydrotreated light naphth <ul> <li>Buehler Test</li> </ul>	eline 406 <b>araffinic:</b> eline 406 m similar materials
Test T Route Specie Metho Result Test T Route Specie Metho Result Rema	ype s of exposure es d t <b>ates (petroleum), so</b> ype s of exposure es d t rks <b>ates (petroleum), h</b> y ype s of exposure	<ul> <li>Buehler Test</li> <li>Skin contact</li> <li>Guinea pig</li> <li>OECD Test Guide</li> <li>negative</li> </ul> olvent-dewaxed heavy p <ul> <li>Buehler Test</li> <li>Skin contact</li> <li>Guinea pig</li> <li>OECD Test Guide</li> <li>negative</li> <li>Based on data fro</li> </ul> ydrotreated light naphth <ul> <li>Buehler Test</li> <li>Skin contact</li> </ul>	eline 406 <b>araffinic:</b> eline 406 m similar materials
Test T Route Specie Metho Result Test T Route Specie Metho Result Rema <b>Distill</b> Test T Route Specie	ype s of exposure es d t <b>ates (petroleum), so</b> ype s of exposure es d t rks <b>ates (petroleum), h</b> y ype s of exposure es	<ul> <li>Buehler Test</li> <li>Skin contact</li> <li>Guinea pig</li> <li>OECD Test Guide</li> <li>negative</li> </ul> olvent-dewaxed heavy p <ul> <li>Buehler Test</li> <li>Skin contact</li> <li>Guinea pig</li> <li>OECD Test Guide</li> <li>negative</li> <li>Based on data fro</li> </ul> ydrotreated light naphth <ul> <li>Buehler Test</li> <li>Skin contact</li> <li>Guinea pig</li> <li>Based on data fro</li> </ul>	eline 406 <b>araffinic:</b> eline 406 m similar materials <b>enic:</b>
Test T Route Specie Metho Result Test T Route Specie Metho Result Rema	ype s of exposure es d t ates (petroleum), so ype s of exposure es d t rks ates (petroleum), hy ype s of exposure es s of exposure es	<ul> <li>Buehler Test</li> <li>Skin contact</li> <li>Guinea pig</li> <li>OECD Test Guide</li> <li>negative</li> </ul> <b>olvent-dewaxed heavy p</b> <ul> <li>Buehler Test</li> <li>Skin contact</li> <li>Guinea pig</li> <li>OECD Test Guide</li> <li>negative</li> <li>Based on data fro</li> </ul> ydrotreated light naphth <ul> <li>Buehler Test</li> <li>Skin contact</li> <li>Guinea pig</li> <li>OECD Test Guide</li> </ul>	eline 406 <b>araffinic:</b> eline 406 m similar materials <b>enic:</b>
Test T Route Specie Metho Result Test T Route Specie Metho Result Rema <b>Distill</b> Test T Route Specie	ype s of exposure es d t ates (petroleum), so ype s of exposure es d t rks ates (petroleum), hy ype s of exposure es s of exposure es	<ul> <li>Buehler Test</li> <li>Skin contact</li> <li>Guinea pig</li> <li>OECD Test Guide</li> <li>negative</li> </ul> olvent-dewaxed heavy p <ul> <li>Buehler Test</li> <li>Skin contact</li> <li>Guinea pig</li> <li>OECD Test Guide</li> <li>negative</li> <li>Based on data fro</li> </ul> ydrotreated light naphth <ul> <li>Buehler Test</li> <li>Skin contact</li> <li>Guinea pig</li> <li>Based on data fro</li> </ul>	eline 406 <b>araffinic:</b> eline 406 m similar materials <b>enic:</b>
Test T Route Specie Metho Result Test T Route Specie Metho Result Test T Route Specie Metho Result	ype s of exposure es d t ates (petroleum), so ype s of exposure es d t rks ates (petroleum), hy ype s of exposure es s of exposure es	<ul> <li>Buehler Test</li> <li>Skin contact</li> <li>Guinea pig</li> <li>OECD Test Guide</li> <li>negative</li> </ul> <b>olvent-dewaxed heavy p</b> <ul> <li>Buehler Test</li> <li>Skin contact</li> <li>Guinea pig</li> <li>OECD Test Guide</li> <li>negative</li> <li>Based on data fro</li> </ul> ydrotreated light naphth <ul> <li>Buehler Test</li> <li>Skin contact</li> <li>Guinea pig</li> <li>OECD Test Guide</li> </ul>	eline 406 <b>araffinic:</b> eline 406 m similar materials <b>enic:</b>
Test T Route Specie Metho Result Test T Route Specie Metho Result Test T Route Specie Metho Result Calciu	ype s of exposure es ad t ates (petroleum), so ype s of exposure es ad t rks ates (petroleum), hy ype s of exposure es ad t um hydroxide:	<ul> <li>Buehler Test</li> <li>Skin contact</li> <li>Guinea pig</li> <li>OECD Test Guide</li> <li>negative</li> </ul> <b>olvent-dewaxed heavy p</b> <ul> <li>Buehler Test</li> <li>Skin contact</li> <li>Guinea pig</li> <li>OECD Test Guide</li> <li>negative</li> <li>Based on data from</li> </ul> <b>ydrotreated light naphth</b> <ul> <li>Buehler Test</li> <li>Skin contact</li> <li>Guinea pig</li> <li>OECD Test Guide</li> <li>negative</li> <li>Based on data from</li> </ul>	eline 406 <b>araffinic:</b> eline 406 m similar materials <b>enic:</b> eline 406
Test T Route Specie Metho Result Test T Route Specie Metho Result Test T Route Specie Metho Result Test T Route Specie Metho Result Test T Route	ype s of exposure es ad t ates (petroleum), so ype s of exposure es ad t rks ates (petroleum), hy ype s of exposure es ad t um hydroxide:	<ul> <li>Buehler Test</li> <li>Skin contact</li> <li>Guinea pig</li> <li>OECD Test Guide</li> <li>negative</li> </ul> olvent-dewaxed heavy p <ul> <li>Buehler Test</li> <li>Skin contact</li> <li>Guinea pig</li> <li>OECD Test Guide</li> <li>negative</li> <li>Based on data fro</li> </ul> ydrotreated light naphth <ul> <li>Buehler Test</li> <li>Skin contact</li> <li>Guinea pig</li> <li>OECD Test Guide</li> <li>negative</li> <li>Buehler Test</li> <li>Skin contact</li> <li>Guinea pig</li> <li>OECD Test Guide</li> <li>negative</li> <li>CECD Test Guide</li> <li>negative</li> </ul>	eline 406 <b>araffinic:</b> eline 406 m similar materials <b>enic:</b> eline 406
Test T Route Specie Metho Result Test T Route Specie Metho Result Test T Route Specie Metho Result Test T Route Specie Metho Result Test T Route	ype s of exposure es ad t ates (petroleum), so ype s of exposure es ad t rks ates (petroleum), hy ype s of exposure es ad t um hydroxide: ype s of exposure	<ul> <li>Buehler Test</li> <li>Skin contact</li> <li>Guinea pig</li> <li>OECD Test Guide</li> <li>negative</li> </ul> <b>olvent-dewaxed heavy p</b> <ul> <li>Buehler Test</li> <li>Skin contact</li> <li>Guinea pig</li> <li>OECD Test Guide</li> <li>negative</li> <li>Based on data fro</li> </ul> <b>ydrotreated light naphth</b> <ul> <li>Buehler Test</li> <li>Skin contact</li> <li>Guinea pig</li> <li>OECD Test Guide</li> <li>negative</li> <li>Based on data fro</li> </ul> <b>ydrotreated light naphth</b> <ul> <li>Buehler Test</li> <li>Skin contact</li> <li>Guinea pig</li> <li>OECD Test Guide</li> <li>negative</li> </ul> Local lymph node <ul> <li>Skin contact</li> </ul>	eline 406 <b>araffinic:</b> eline 406 m similar materials <b>enic:</b> eline 406
Test T Route Specie Metho Result Test T Route Specie Metho Result Test T Route Specie Metho Result Test T Route Specie Metho Result	ype s of exposure es ad t ates (petroleum), so ype s of exposure es ates (petroleum), hy ype s of exposure es ad t um hydroxide: ype s of exposure es ad	<ul> <li>Buehler Test</li> <li>Skin contact</li> <li>Guinea pig</li> <li>OECD Test Guide</li> <li>negative</li> </ul> <b>olvent-dewaxed heavy p</b> <ul> <li>Buehler Test</li> <li>Skin contact</li> <li>Guinea pig</li> <li>OECD Test Guide</li> <li>negative</li> <li>Based on data fro</li> </ul> <b>ydrotreated light naphth</b> <ul> <li>Buehler Test</li> <li>Skin contact</li> <li>Guinea pig</li> <li>OECD Test Guide</li> <li>negative</li> <li>Buehler Test</li> <li>Skin contact</li> <li>Guinea pig</li> <li>OECD Test Guide</li> <li>negative</li> </ul>	eline 406 araffinic: eline 406 m similar materials enic: eline 406 assay (LLNA)
Test T Route Specie Metho Result Test T Route Specie Metho Result Test T Route Specie Metho Result Test T Route Specie Metho Result Test T Route	ype s of exposure es ad t ates (petroleum), so ype s of exposure es ad t rks ates (petroleum), hy ype s of exposure es ad t um hydroxide: ype s of exposure es ad	<ul> <li>Buehler Test</li> <li>Skin contact</li> <li>Guinea pig</li> <li>OECD Test Guide</li> <li>negative</li> </ul> <b>olvent-dewaxed heavy p</b> <ul> <li>Buehler Test</li> <li>Skin contact</li> <li>Guinea pig</li> <li>OECD Test Guide</li> <li>negative</li> <li>Based on data fro</li> </ul> <b>ydrotreated light naphth</b> <ul> <li>Buehler Test</li> <li>Skin contact</li> <li>Guinea pig</li> <li>OECD Test Guide</li> <li>negative</li> <li>Based on data fro</li> </ul> <b>ydrotreated light naphth</b> <ul> <li>Buehler Test</li> <li>Skin contact</li> <li>Guinea pig</li> <li>OECD Test Guide</li> <li>negative</li> </ul> Local lymph node <ul> <li>Skin contact</li> </ul>	eline 406 araffinic: eline 406 m similar materials enic: eline 406 assay (LLNA)



ersion 1	Revision Date: 10/11/2018	SDS Number: 594895-00010	Date of last issue: 10/01/2018 Date of first issue: 04/01/2016
Rema	arks	: Based on da	ta from similar materials
Calci	um bis(di C8-C10, b	ranched, C9 rich, a	kylnaphthalenesulphonate):
Test 7			at insult patch test (HRIPT)
Route Resul	es of exposure	: Skin contact	
Resul	IL	: negative	
Germ	cell mutagenicity		
Not cl	lassified based on av	ailable information.	
Com	oonents:		
Distil	lates (petroleum), h	ydrotreated heavy i	naphthenic:
Geno	toxicity in vitro	: Test Type: B	acterial reverse mutation assay (AMES)
			CD Test Guideline 471
		Result: nega	tive
Geno	toxicity in vivo	: Test Type: M	lammalian erythrocyte micronucleus test (in vivo
		cytogenetic a	assay)
		Species: Mo	
			Route: Intraperitoneal injection CD Test Guideline 474
		Result: nega	
			ased on data from similar materials
0	h. 14		
Grap	nite: toxicity in vitro	· Test Type: B	acterial reverse mutation assay (AMES)
Geno			CD Test Guideline 471
		Result: nega	
		Test Type: It	witre memory call game mutation test
			n vitro mammalian cell gene mutation test CD Test Guideline 476
		Result: nega	
		Test Type: (	hromosome aberration test in vitro
			CD Test Guideline 473
		Result: nega	tive
Resid	lual oils (petroleum	). hvdrotreated:	
	toxicity in vitro	-	n vitro mammalian cell gene mutation test
	-		CD Test Guideline 476
		Result: nega	tive
Geno	toxicity in vivo		lammalian erythrocyte micronucleus test (in vivo
		cytogenetic a	
		Species: Mo	use Route: Intraperitoneal injection
			CD Test Guideline 474
		Result: nega	
Talc:			
	toxicity in vitro	: Test Type Γ	NA damage and repair, unscheduled DNA syn-
0010		. 1000 Type. L	no raamago ana ropan, anoonouulou Divr syn-



/ersion .1	Revision Date: 10/11/2018	SDS Number: 594895-00010	Date of last issue: 10/01/2018 Date of first issue: 04/01/2016
		thesis in mam Result: negati	imalian cells (in vitro) ive
Geno	toxicity in vivo	Species: Rat	nromosome aberration test in vitro oute: Ingestion ive
Сорр	er metal powder:		
Genot	toxicity in vitro		acterial reverse mutation assay (AMES) D Test Guideline 471 ive
Geno	toxicity in vivo	cytogenetic as Species: Mou Application Ro Method: Direc Result: negati	se oute: Ingestion ctive 67/548/EEC, Annex V, B.12.
Calci	um carbonate:		
Genot	toxicity in vitro		acterial reverse mutation assay (AMES) D Test Guideline 471 ive
			nromosome aberration test in vitro D Test Guideline 473 ive
			vitro mammalian cell gene mutation test D Test Guideline 476 ive
Dolor	nite:		
Geno	toxicity in vitro	Method: OEC Result: negati	acterial reverse mutation assay (AMES) D Test Guideline 471 ive sed on data from similar materials
Distil	lates (petroleum), ł	ydrotreated heavy p	araffinic:
Geno	toxicity in vitro		acterial reverse mutation assay (AMES) D Test Guideline 471 ive
Geno	toxicity in vivo	cytogenetic as Species: Mou Application Re Method: OEC Result: negati	se oute: Intraperitoneal injection D Test Guideline 474



## HONEY KOTE ®

n oxide:		
	Method: OECD	terial reverse mutation assay (AMES) 9 Test Guideline 471 e
	Method: OECD Result: negativ	omosome aberration test in vitro ) Test Guideline 473 e ed on data from similar materials
	Method: OECD	itro mammalian cell gene mutation test ) Test Guideline 476 e
		ed on data from similar materials
tes (petroleum), h	ydrotreated light para	ffinic:
xicity in vitro	Result: negativ	eterial reverse mutation assay (AMES) e ed on data from similar materials
tes (petroleum), s	olvent dewaxed light	paraffinic; baseoil - unspecified:
xicity in vitro	Method: OECD Result: negativ	eterial reverse mutation assay (AMES) Test Guideline 471 e ed on data from similar materials
xicity in vivo	cytogenetic ass Species: Mous Application Rou Method: OECD Result: negativ	e ute: Intraperitoneal injection 9 Test Guideline 474
		, novoffinio.
	: Test Type: Bac Method: OECD Result: negativ	terial reverse mutation assay (AMES) Test Guideline 471
xicity in vivo	cytogenetic ass Species: Mous Application Rou Method: OECD Result: negativ	e ute: Intraperitoneal injection 9 Test Guideline 474
	xicity in vitro <b>tes (petroleum), s</b> xicity in vitro	xicity in vitro : Test Type: Bac Method: OECD Result: negativ Test Type: Chr Method: OECD Result: negativ Remarks: Base Test Type: In v Method: OECD Result: negativ Remarks: Base tes (petroleum), hydrotreated light para xicity in vitro : Test Type: Bac Result: negativ Remarks: Base tes (petroleum), solvent dewaxed light p xicity in vitro : Test Type: Bac Method: OECD Result: negativ Remarks: Base tes (petroleum), solvent dewaxed light p xicity in vitro : Test Type: Bac Method: OECD Result: negativ Remarks: Base xicity in vitro : Test Type: Mar cytogenetic ass Species: Mous Application Roo Method: OECD Result: negativ Remarks: Base tes (petroleum), solvent-dewaxed heavy xicity in vitro : Test Type: Bac Method: OECD Result: negativ Remarks: Base tes (petroleum), solvent-dewaxed heavy xicity in vitro : Test Type: Bac Method: OECD Result: negativ Remarks: Base tes (petroleum), solvent-dewaxed heavy xicity in vitro : Test Type: Bac Method: OECD Result: negativ Remarks: Base xicity in vitro : Test Type: Mar cytogenetic ass Species: Mous Application Roo Method: OECD Result: negativ Remarks: Base

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)



rsion	Revision Date: 10/11/2018		8 Number: 895-00010	Date of last issue: 10/01/2018 Date of first issue: 04/01/2016
			Method: OECl Result: negati	D Test Guideline 476 ve
Geno	toxicity in vivo		cytogenetic as Species: Mous Application Ro	se oute: Intraperitoneal injection D Test Guideline 474
Calci	um hydroxide:			
	oxicity in vitro			cterial reverse mutation assay (AMES) D Test Guideline 471 ve
				romosome aberration test in vitro D Test Guideline 473 ve
			••	vitro mammalian cell gene mutation test D Test Guideline 476 ve
Aceti	c acid:			
	oxicity in vitro		Test Type: Ba Result: negati	cterial reverse mutation assay (AMES) ve
			Test Type: Ch Result: negati	romosome aberration test in vitro ve
Geno	oxicity in vivo		cytogenetic as Species: Rat Application Ro Result: negati	oute: inhalation (vapor)
Oalai				
	toxicity in vitro	:	Test Type: Ba	<b>ylnaphthalenesulphonate):</b> cterial reverse mutation assay (AMES) D Test Guideline 471 ve
	<b>nogenicity</b> assified based on av		Remarks: Bas	ed on data from similar materials
	onents:			
				- http://wie.
Distil Speci	lates (petroleum), ł	-	ated heavy na Mouse	apntneniC:
Opeol	ation Route		Skin contact	



ersion 1	Revision Date: 10/11/2018	SDS Number:Date of last issue: 10/01/2018594895-00010Date of first issue: 04/01/2016
Metho		: OECD Test Guideline 451
Resul	lt	: negative
	lual oils (petroleum)	, hydrotreated:
Speci		: Mouse
	cation Route	: Skin contact
Expos Resul	sure time	: 78 weeks
Resul	it.	: negative
Talc:		
Speci		: Mouse
	cation Route	: inhalation (dust/mist/fume)
	sure time	: 2 Years
Resul	I	: negative
Distill	lates (petroleum), h	ydrotreated heavy paraffinic:
Speci		: Mouse
	cation Route	: Skin contact
	sure time	: 78 weeks
Metho		: OECD Test Guideline 451
Resul		: negative
Rema	irks	: Based on data from similar materials
Calci	um oxide:	
Speci	es	: Rat
	cation Route	: Ingestion
	sure time	: 104 weeks
Resul		: negative
Rema	arks	: Based on data from similar materials
Distil	lates (petroleum), se	olvent dewaxed light paraffinic; baseoil - unspecified:
Speci	es	: Mouse
	cation Route	: Skin contact
	sure time	: 78 weeks
Metho Resul		: OECD Test Guideline 451
Docul	t	: negative
Rema	arks	: Based on data from similar materials
Rema		: Based on data from similar materials
Rema	lates (petroleum), se	
Rema Distill Specie Applic	<b>lates (petroleum), s</b> e es cation Route	olvent-dewaxed heavy paraffinic: : Mouse : Skin contact
Rema Distill Specie Applic Expos	<b>lates (petroleum), s</b> e es cation Route sure time	olvent-dewaxed heavy paraffinic: : Mouse : Skin contact : 78 weeks
Rema Distill Specie Applic Expos Metho	<b>lates (petroleum), s</b> e es cation Route sure time od	olvent-dewaxed heavy paraffinic: : Mouse : Skin contact : 78 weeks : OECD Test Guideline 451
Rema Distill Specie Applic Expos	<b>lates (petroleum), s</b> e es cation Route sure time od	olvent-dewaxed heavy paraffinic: : Mouse : Skin contact : 78 weeks
Rema Distill Specie Applic Expos Metho Resul	<b>lates (petroleum), s</b> e es cation Route sure time od It	olvent-dewaxed heavy paraffinic: : Mouse : Skin contact : 78 weeks : OECD Test Guideline 451 : negative
Rema Distill Specie Applic Expos Metho Resul	lates (petroleum), se es cation Route sure time od it lates (petroleum), hy	olvent-dewaxed heavy paraffinic: : Mouse : Skin contact : 78 weeks : OECD Test Guideline 451 : negative ydrotreated light naphthenic:
Rema Distill Specie Applic Expos Metho Resul Distill Specie	lates (petroleum), se es cation Route sure time od it lates (petroleum), hy es	<ul> <li>blvent-dewaxed heavy paraffinic:</li> <li>Mouse</li> <li>Skin contact</li> <li>78 weeks</li> <li>OECD Test Guideline 451</li> <li>negative</li> </ul> ydrotreated light naphthenic: <ul> <li>Mouse</li> </ul>
Rema Distill Specie Applic Expos Metho Resul Distill Specie Applic	lates (petroleum), se es cation Route sure time od it lates (petroleum), hy	olvent-dewaxed heavy paraffinic: : Mouse : Skin contact : 78 weeks : OECD Test Guideline 451 : negative ydrotreated light naphthenic:



rsion	Revision Date: 10/11/2018	SDS Number: 594895-00010	Date of last issue: 10/01/2018 Date of first issue: 04/01/2016
Calci	um hydroxide:		
Speci		: Rat	
	ation Route	: Ingestion	
Expos	sure time	: 104 weeks : negative	
Rema	-		from similar materials
Aceti	c acid:		
Speci		: Rat	
	ation Route	: Ingestion	
	sure time	: 8 Months	
Resul		: negative	
Quart	<b>Z</b> :		
Speci	es	: Humans	
Applic	ation Route	: inhalation (dus	t/mist/fume)
Resul	=	: positive	
Rema	rks		tional Agency for Research on Cancer)
			ce(s) are inextricably bound in the product ar ot contribute to a dust inhalation hazard.
Carcir ment	nogenicity - Assess-	: Positive evider tion)	nce from human epidemiological studies (inha
IARC	Group 1: Ca Quartz	rcinogenic to humans	s 14808-60-7
	(Silica dust,	crystalline)	14000-00-7
OSHA		ent of this product pre list of regulated carcir	sent at levels greater than or equal to 0.1% is nogens.
NTP		e human carcinogen	
	Quartz (Silica, Crys	talline (Respirable Si	14808-60-7 ze))
_			
-	oductive toxicity assified based on avai	lable information	
	onents:		
Grapi			
-	s on fertility	· Test Type: Co	nbined repeated dose toxicity study with the
Liioot		reproduction/d Species: Rat Application Ro	evelopmental toxicity screening test
		Result: negativ	e
Effect	s on fetal development	reproduction/d	nbined repeated dose toxicity study with the evelopmental toxicity screening test
		Species: Rat	



ersion .1	Revision Date: 10/11/2018		S Number: 4895-00010	Date of last issue: 10/01/2018 Date of first issue: 04/01/2016
			Application Rou Method: OECD Result: negativ	Test Guideline 422
Resi	dual oils (petroleum), h	ydro	otreated:	
Effec	ts on fertility	:	test Species: Rat Application Rot	Test Guideline 421
Effec	ts on fetal development	:	Species: Rat	oryo-fetal development ute: Skin contact e
Talc:				
Effec	ts on fetal development	:	Test Type: Eml Species: Rat Application Rou Result: negativ	
Copp	per metal powder:			
Effec	ts on fertility	:	Species: Rat Application Rou Result: negativ	
Effec	ts on fetal development	:	Test Type: Eml Species: Rabbi Application Rou Result: negativ	ute: Ingestion
Calci	ium carbonate:			
Effec	ts on fertility	:	reproduction/de Species: Rat Application Rot	Test Guideline 422
Effec	ts on fetal development	:	Species: Rat Application Rot	Test Guideline 414
Dolo	mite:			
Effec	ts on fertility	:	Test Type: Cor	nbined repeated dose toxicity study with th
			25 / 43	



ersion 1	Revision Date: 10/11/2018	SDS Number:Date of last issue: 10/01/2018594895-00010Date of first issue: 04/01/2016		
		reproduction/developmental toxicity screening test Species: Rat Application Route: Ingestion Method: OECD Test Guideline 422 Result: negative Remarks: Based on data from similar materials		
Effects on fetal development		: Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test Species: Rat Application Route: Ingestion Method: OECD Test Guideline 422 Result: negative Remarks: Based on data from similar materials		
Distil	lates (petroleum), hydr	rotreated heavy paraffinic:		
Effect	s on fertility	<ul> <li>Test Type: Reproduction/Developmental toxicity screening test</li> <li>Species: Rat</li> <li>Application Route: Ingestion</li> <li>Result: negative</li> <li>Remarks: Based on data from similar materials</li> </ul>		
Effect	s on fetal development	: Test Type: Embryo-fetal development Species: Rat Application Route: Skin contact Method: OECD Test Guideline 414 Result: negative Remarks: Based on data from similar materials		
Calci	um oxide:			
Effect	s on fertility	<ul> <li>Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test Species: Rat Application Route: Ingestion Method: OECD Test Guideline 422 Result: negative Remarks: Based on data from similar materials</li> </ul>		
Effect	s on fetal development	: Test Type: Embryo-fetal development Species: Mouse Application Route: Ingestion Method: OECD Test Guideline 414 Result: negative		
Distil	lates (petroleum). solv	ent dewaxed light paraffinic; baseoil - unspecified:		
	s on fertility	<ul> <li>Test Type: Reproduction/Developmental toxicity screening test</li> <li>Species: Rat</li> <li>Application Route: Ingestion</li> <li>Result: negative</li> <li>Remarks: Based on data from similar materials</li> </ul>		



ersion 1	Revision Date: 10/11/2018	S Number: 4895-00010	Date of last issue: 10/01/2018 Date of first issue: 04/01/2016
Effects	s on fetal development	Species: Rat Application Rou Method: OECD Result: negativ	bryo-fetal development ute: Skin contact 9 Test Guideline 414 e ed on data from similar materials
Distill	ates (petroleum), hydi	eated light napl	nthenic:
Effects	s on fertility	Test Type: Rep test Species: Rat Application Roo Result: negativ	
Effects	s on fetal development	Species: Rat	bryo-fetal development ute: Skin contact e
Calciu	um hydroxide:		
	s on fertility	reproduction/de Species: Rat Application Rot	Test Guideline 422
Effect	s on fetal development	Species: Rat Application Rou Result: negativ	
Acetic	c acid:		
Effects	s on fetal development	Test Type: Eml Species: Rat Application Rou Result: negativ	
	-single exposure assified based on availa	information.	
<u>Comp</u>	oonents:		
	u <b>m oxide:</b> sment	May cause res	piratory irritation.
	u <b>m hydroxide:</b> ssment	May cause res	piratory irritation.



STOT-repeated exposure         Not classified based on available information.         Components:         Quartz:         Routes of exposure       : inhalation (dust/mist/fume)         Target Organs       :: Lungs         Assessment       :: Shown to produce significant health effects in animals at corcentrations of 0.02 mgl//6h/d or less.         Repeated dose toxicity       : Shown to produce significant health effects in animals at corcentrations of 0.02 mgl//6h/d or less.         Repeated dose toxicity       : Shown to produce significant health effects in animals at corcentrations of 0.02 mgl//6h/d or less.         Species       : Rat         NOAEL       : > 0.98 mg/l         Application Route       : inhalation (dust/mist/fume)         Exposure time       : 28 Days         Remarks       : Based on data from similar materials         Residual oils (petroleum), hydrotreated:         Species       : Rat         NOAEL       : > 2,000 mg/kg         Application Route       : Shi contact         Exposure time       : 13 Weeks         Method       : OECD Test Guideline 411         Coper metal powder:       > 28 Days         Species       : Rat         NOAEL       : > 1,000 mg/kg         Application Route       : Inplestion	ersion 1	Revision Date: 10/11/2018	SDS Number: 594895-00010	Date of last issue: 10/01/2018 Date of first issue: 04/01/2016
Not classified based on available information.         Components:         Quartz:         Routes of exposure       : inhalation (dust/mist/fume)         Target Organs       :: Lungs         Assessment       :: Shown to produce significant health effects in animals at corcentrations of 0.02 mg//6h/d or less.         Repeated dose toxicity         Components:         Distillates (petroleum), hydrotreated heavy naphthenic:         Species       : Rat         NOAEL       :> 0.98 mg/l         Application Route       : inhalation (dust/mist/fume)         Exposure time       : 28 Days         Remarks       :: Based on data from similar materials         Residual oils (petroleum), hydrotreated:         Species       :: Rat         NOAEL       :: > 2,000 mg/kg         Application Route       :: 31 Weeks         Method       :: OECD Test Guideline 411         Copper metal powder:       :: Species         Species       :: Rat         NOAEL       :: > = 2 mg/m²         Application Route       :: inhalation (dust/mist/fume)         Exposure time       :: 28 Days         Calcium carbonate:       :         Species       : Rat         NOAEL       :: > 1.00	STOT	-repeated exposure		
Components:         Quart:         Routes of exposure       : inhalation (dust/mist/fume)         Target Organs       :: Lungs         Assessment       :: Shown to produce significant health effects in animals at corcentrations of 0.02 mgl/l6h/d or less.         Repeated dose toxicity         Components:         Distillates (petroleum), hydrotreated heavy naphthenic:         Species       :: Rat         NOAEL       :: > 0.98 mg/l         Application Route       :: inhalation (dust/mist/fume)         Exposure time       :: 28 Days         Remarks       :: Based on data from similar materials         Residual oils (petroleum), hydrotreated:         Species       :: Rat         NOAEL       :: > 2.000 mg/kg         Application Route       : Skin contact         Exposure time       :: 13 Weeks         Method       :: OECD Test Guideline 411         Copper metal powder:       : > 28 Days         Species       :: Rat         NOAEL       :: > 2 28 Days         Calcium carbonate:       : 28 Days         Species       : Rat         NOAEL       : > 1,000 mg/kg         Application Route       : Ingestion         Exposure time       : 2 Boays <td></td> <td></td> <td></td> <td></td>				
Quartz:         Routes of exposure       : inhalation (dust/mist/fume)         Target Organs       :: Lungs         Assessment       :: Shown to produce significant health effects in animals at corcentrations of 0.02 mg/l/6h/d or less.         Repeated dose toxicity         Organs         One of 0.02 mg/l/6h/d or less.         Repeated dose toxicity         Organs         One of 0.02 mg/l/6h/d or less.         Repeated dose toxicity         Organs         One of 0.02 mg/l/6h/d or less.         Repeated dose toxicity         Organs         One of 0.02 mg/l/6h/d or less.         Repeated dose toxicity         Organs         Distillates (petroleum), hydrotreated heavy naphthenic:         Species         Ret         NOAEL         Species         Rat         NOAEL         Species         Rat         NOAEL         Species         Rat         NOAEL				
Routes of exposure       : inhalation (dust/mist/fume)         Target Organs       :: Lungs         Assessment       :: Shown to produce significant health effects in animals at corcentrations of 0.02 mg/l/6h/d or less.         Repeated dose toxicity         Components:         Distillates (petroleum), hydrotreated heavy naphthenic:         Species       : Rat         NOAEL       :: > 0.98 mg/l         Application Route       : inhalation (dust/mist/fume)         Exposure time       :: 28 Days         Remarks       :: Based on data from similar materials         Residual oils (petroleum), hydrotreated:         Species       :: Rat         NOAEL       :: > 2,000 mg/kg         Application Route       : Skin contact         Exposure time       : 13 Weeks         Method       : OECD Test Guideline 411         Copper metal powder:       : >= 2 mg/m <sup>3</sup> Species       : Rat         NOAEL       : >= 2 mg/m <sup>3</sup> Application Route       : Ingestion         Exposure time       : 28 Days         Calcium carbonate:       :         Species       : Rat         NOAEL       : > 1,000 mg/kg         Application Route       : Ingestion      <	<u>com</u>	Jonenits.		
Target Organs       :       Lungs         Assessment       :       Shown to produce significant health effects in animals at concentrations of 0.02 mg/l/6h/d or less.         Repeated dose toxicity       Components:         Distillates (petroleum), hydrotreated heavy naphthenic:         Species       :         Rat       NOAEL         Application Route       :         NOAEL       :         Application Route       :         Inhalation (dust/mist/fume)         Exposure time       :         28 Days         Remarks       :         Based on data from similar materials         Residual oils (petroleum), hydrotreated:         Species       :         Species       :         Rat         NOAEL       :         NOAEL       :         Species       :         Rat         NOAEL       :         Species       :	Quart	z:		
Assessment       Shown to produce significant health effects in animals at concentrations of 0.02 mg/l/6h/d or less.         Repeated dose toxicity         Components:         Distillates (petroleum), hydrotreated heavy naphthenic:         Species       : Rat         NOAEL       :> 0.98 mg/l         Application Route       : inhalation (dust/mist/fume)         Exposure time       :: 28 Days         Remarks       :: Based on data from similar materials         Residual oils (petroleum), hydrotreated:         Species       : Rat         NOAEL       :: > 2.000 mg/kg         Application Route       : Skin contact         Exposure time       :: 13 Weeks         Method       : OECD Test Guideline 411         Copper metal powder:         Species       : Rat         NOAEL       : > 2 20 Days         Calcium carbonate:       : inhalation (dust/mist/fume)         Exposure time       : 28 Days         Calciun carbonate:       : Species         Species       : Rat         NOAEL       :> 1.000 mg/kg         Application Route       : Ingestion         Exposure time       : 28 Days         Method       :: OECD Test Guideline 422         Dolomite:<				t/mist/fume)
centrations of 0.02 mg/l/6h/d or less.         Repeated dose toxicity         Components:         Distilates (petroleum), hydrotreated heavy naphthenic:         Species :: Rat         NOAEL :: > 0.98 mg/l         Application Route :: > 0.98 mg/l         Application Route :: > 0.98 mg/l         Application Route :: > 0.98 mg/l         Remarks :: Based on data from similar materials         Residual oils (petroleum), hydrotreated:         Species :: Rat         NOAEL :: > 2.000 mg/kg         Application Route :: > 2.8 Days         Method :: : : > 1.000 mg/kg         Application Route :: : 1.000 mg/kg         Application Route :: : : : : 2.8 Days         Method :: : : : : : : : : : : : : : : : : :				use significant basth offects in enimals at ear
Somponents:         Distillates (petroleum), hydrotreated heavy naphthenic:         Species       i: Rat         NOAEL       i: > 0.98 mg/l         Application Route       i: inhalation (dust/mist/fume)         Exposure time       i: 28 Days         Remarks       Based on data from similar materials         Residual oils (petroleum), hydrotreated:         Species       i: Rat         NOAEL       i: > 2.00 mg/kg         Application Route       i: Skin contact         Exposure time       i: Skin contact         Species       : Rat         NOAEL       : > 2 2 mg/m³         Application Route       : Inhalation (dust/mist/fume)         Exposure time       : 28 Days         Calcium carbonate:       : NOAEL         Species       : Rat         NOAEL       : 28 Days         Method       : COED Test Guideline 422<	Asses	Silleni		
Distillates (petroleum), hydrotreated heavy naphthenic:         Species       :       Rat         NOAEL       :       > 0.98 mg/l         Application Route       :       inhalation (dust/mist/fume)         Exposure time       :       28 Days         Remarks       :       Based on data from similar materials         Residual oils (petroleum), hydrotreated:         Species       :       Rat         NOAEL       ::       > 2,000 mg/kg         Application Route       :       Skin contact         Exposure time       :       13 Weeks         Method       :       OEC Test Guideline 411         Copper metal powder:         Species       :       Rat         NOAEL       :       > 2 mg/m³         Application Route       :       inhalation (dust/mist/fume)         Exposure time       :       28 Days         Calcium carbonate:         Species       :       Rat         NOAEL       :       > 1,000 mg/kg         Application Route       :       Ingestion         Exposure time       :       2 B Days         Method       :       OECD Test Guideline 422	Repe	ated dose toxicity		
Species:RatNOAEL:> 0.98 mg/lApplication Route:inhalation (dust/mist/fume)Exposure time: $28 Days$ Remarks:Based on data from similar materialsResidual oils (petroleum), hydrotreated:Species:RatNOAEL:> 2,000 mg/kgApplication Route:Skin contactExposure time:13 WeeksMethod:OECD Test Guideline 411Copper metal powder:Species:RatNOAEL:> = 2 mg/m³Application Route:inhalation (dust/mist/fume)Exposure time:28 DaysCalcium carbonate:Species:RatNOAEL:> 1,000 mg/kgApplication Route:IngestionExposure time:28 DaysMethod:OECD Test Guideline 422Dolomite:Species:MouseNOAEL:1,300 mg/kgApplication Route:1,300 mg/kgApplication Route:1,300 mg/kgApplication Route:28 DaysMethod:28 DaysRemarks:Based on data from similar materialsDistillates (petroleum), hydrotreated heavy paraffinic:	Comp	oonents:		
NOAEL::> 0.98 mg/lApplication Route::inhalation (dust/mist/fume)Exposure time::28 DaysRemarks::Based on data from similar materialsResidual oils (petroleum), hydrotreated:Species::RatNOAEL::> 2,000 mg/kgApplication Route::Skin contactExposure time::13 WeeksMethod::OECD Test Guideline 411Copper metal powder:Species::RatNOAEL::>= 2 mg/m³Application Route::inhalation (dust/mist/fume)Exposure time::28 DaysCalcium carbonate:Species::RatNOAEL::> 1,000 mg/kgApplication Route::IngestionExposure time::28 DaysMethodCalcium carbonate:Species::Species::RatNOAEL::> 1,000 mg/kgApplication Route::IngestionExposure time::28 DaysMethod::0ECD Test Guideline 422Dolomite:Species::Method::1,300 mg/kgApplication Route::Ingestion:Exposure time::28 DaysRemarks::Based on data from similar materialsDistillates (petroleum), hydrotreated h			· ·	phthenic:
Application Route       : inhalation (dust/mist/fume)         Exposure time       : 28 Days         Remarks       : Based on data from similar materials         Residual oils (petroleum), hydrotreated:         Species       : Rat         NOAEL       :> 2,000 mg/kg         Application Route       : Skin contact         Exposure time       :1 3 Weeks         Method       : OECD Test Guideline 411         Copper metal powder:         Species       : Rat         NOAEL       : >= 2 mg/m³         Application Route       : inhalation (dust/mist/fume)         Exposure time       : 28 Days         Calcium carbonate:         Species       : Rat         NOAEL       :> 1000 mg/kg         Application Route       : Ingestion         Exposure time       : 28 Days         Method         Dotomite:         Species       : Mouse         NOAEL       : 1,300 mg/kg         Application Route       : Ingestion         Exposure time       : 28 Days         Method       : OECD Test Guideline 422         Dolomite:       :         Species       : Mouse	•			
Exposure time       : 28 Days         Remarks       : Based on data from similar materials         Residual oils (petroleum), hydrotreated:         Species       : Rat         NOAEL       : > 2,000 mg/kg         Application Route       : Skin contact         Exposure time       : 13 Weeks         Method       : OECD Test Guideline 411         Copper metal powder:         Species       : Rat         NOAEL       : >= 2 mg/m³         Application Route       : inhalation (dust/mist/fume)         Exposure time       : 28 Days         Calcium carbonate:       :         Species       : Rat         NOAEL       : > 1,000 mg/kg         Application Route       : Ingestion         Exposure time       : 28 Days         Calcium carbonate:       :         Species       : Rat         NOAEL       : > 1,000 mg/kg         Application Route       : Ingestion         Exposure time       : 28 Days         Method       : OECD Test Guideline 422         Dolomite:       :         Species       : Mouse         NOAEL       : 1,300 mg/kg         Application Route       : Ingestion				t/mist/fume)
Residual oils (petroleum), hydrotreated:         Species       :         NOAEL       :       > 2,000 mg/kg         Application Route       :       Skin contact         Exposure time       :       13 Weeks         Method       :       OECD Test Guideline 411         Copper metal powder:       :       Species         Species       :       Rat         NOAEL       :       > 2 mg/m³         Application Route       :       inhalation (dust/mist/fume)         Exposure time       :       28 Days         Calcium carbonate:       :       NOAEL         Species       :       Rat         NOAEL       :       > 1,000 mg/kg         Application Route       :       Ingestion         Exposure time       :       28 Days         Method       :       0.20 CD Test Guideline 422         Dolomite:       :       1,300 mg/kg         Application Route       :       1,300 mg/kg         Application Route       :				
Species       :       Rat         NOAEL       :       > 2,000 mg/kg         Application Route       :       Skin contact         Exposure time       :       13 Weeks         Method       :       OECD Test Guideline 411         Copper metal powder:       :       Species         Species       :       Rat         NOAEL       :       >= 2 mg/m³         Application Route       :       inhalation (dust/mist/fume)         Exposure time       :       28 Days         Calcium carbonate:       :       >= 1,000 mg/kg         Species       :       Rat         NOAEL       :       > 1,000 mg/kg         Application Route       :       Ingestion         Exposure time       :       28 Days         Method       :       OECD Test Guideline 422         Dolomite:       :       Species       :         Species       :       Mouse       NOAEL       :         NOAEL       :       1,300 mg/kg       :       :         Application Route       :       1,300 mg/kg       :       :         Species       :       :       Mouse       :       :	Rema	arks	: Based on data	from similar materials
NOAEL       : > 2,000 mg/kg         Application Route       : Skin contact         Exposure time       : 13 Weeks         Method       : OECD Test Guideline 411         Copper metal powder:         Species       : Rat         NOAEL       : >= 2 mg/m³         Application Route       : inhalation (dust/mist/fume)         Exposure time       : 28 Days         Calcium carbonate:         Species       : Rat         NOAEL       :> 1,000 mg/kg         Application Route       : Ingestion         Exposure time       : 28 Days         Dolomite:         Species       : Mouse         NOAEL       : OECD Test Guideline 422         Dolomite:         Species       : Mouse         NOAEL       : 0ECD Test Guideline 422         Dolomite:         Species       : Mouse         NOAEL       : 1,300 mg/kg         Application Route       : Ingestion         Exposure time       : 28 Days         Remarks       : Based on data from similar materials         Distillates (petroleum), hydrotreated heavy paraffinic:	Resid	lual oils (petroleum)	, hydrotreated:	
Application Route       :       Skin contact         Exposure time       :       13 Weeks         Method       :       OECD Test Guideline 411         Copper metal powder:         Species       :       Rat         NOAEL       :       >= 2 mg/m³         Application Route       :       inhalation (dust/mist/fume)         Exposure time       :       28 Days         Calcium carbonate:         Species       :       Rat         NOAEL       :       > 1,000 mg/kg         Application Route       :       Ingestion         Exposure time       :       28 Days         Dolomite:         Species       :       Rat         NOAEL       :       > 1,000 mg/kg         Application Route       :       Ingestion         Exposure time       :       28 Days         Method       :       OECD Test Guideline 422         Dolomite:       :       1,300 mg/kg         Application Route       :       Ingestion         Exposure time       :       28 Days         Remarks       :       Based on data from similar materials         D	•			
Exposure time       13 Weeks         Method       0 ECD Test Guideline 411         Copper metal powder:         Species       Rat         NOAEL       >= 2 mg/m³         Application Route       inhalation (dust/mist/fume)         Exposure time       28 Days         Calcium carbonate:         Species       Rat         NOAEL       > >1,000 mg/kg         Application Route       Ingestion         Exposure time       28 Days         Calcium carbonate:       > 1,000 mg/kg         Application Route       Ingestion         Exposure time       28 Days         Method       OECD Test Guideline 422         Dolomite:       28 Days         Species       Mouse         NOAEL       1,300 mg/kg         Application Route       Ingestion         Exposure time       28 Days         Remarks       Ingestion         Exposure time       28 Days         Remarks       Based on data from similar materials         Distillates (petroleum), hydrotreated heavy paraffinic:				
Method       : OECD Test Guideline 411         Copper metal powder:         Species       : Rat         NOAEL       :>= 2 mg/m³         Application Route       : inhalation (dust/mist/fume)         Exposure time       : 28 Days         Calcium carbonate:				
Species       :       Rat         NOAEL       :       >= 2 mg/m³         Application Route       :       inhalation (dust/mist/fume)         Exposure time       :       28 Days         Calcium carbonate:         Species       :       Rat         NOAEL       :       > 1,000 mg/kg         Application Route       :       Ingestion         Exposure time       :       28 Days         Method       :       OECD Test Guideline 422         Dolomite:       :       1,300 mg/kg         Application Route       :       1,300 mg/kg         Application Route       :       1.900 mg/kg         Application Route       :       1.300 mg/kg         Application Route       :       1.900 mg/kg         Application Route       :       1.900 mg/kg         Application Route       :       1.900 mg/kg         Application Route       :       :         Exposure time       :       28 Days         Remarks       :       :       :         Distillates (petroleum), hydrotreated heavy paraffinic:       :			-	uideline 411
Species       :       Rat         NOAEL       :       >= 2 mg/m³         Application Route       :       inhalation (dust/mist/fume)         Exposure time       :       28 Days         Calcium carbonate:         Species       :       Rat         NOAEL       :       > 1,000 mg/kg         Application Route       :       Ingestion         Exposure time       :       28 Days         Method       :       OECD Test Guideline 422         Dolomite:       :       1,300 mg/kg         Application Route       :       1,300 mg/kg         Application Route       :       1.900 mg/kg         Application Route       :       1.300 mg/kg         Application Route       :       1.900 mg/kg         Application Route       :       1.900 mg/kg         Application Route       :       1.900 mg/kg         Application Route       :       :         Exposure time       :       28 Days         Remarks       :       :       :         Distillates (petroleum), hydrotreated heavy paraffinic:       :	Сорр	er metal powder:		
NOAEL       : >= 2 mg/m³         Application Route       : inhalation (dust/mist/fume)         Exposure time       : 28 Days         Calcium carbonate:		-	: Rat	
Exposure time       : 28 Days         Calcium carbonate:	NOAE	EL		
Calcium carbonate:         Species       : Rat         NOAEL       : > 1,000 mg/kg         Application Route       : Ingestion         Exposure time       : 28 Days         Method       : OECD Test Guideline 422         Dolomite:       :         Species       : Mouse         NOAEL       : 1,300 mg/kg         Application Route       : Ingestion         Exposure time       : 28 Days         Model       : OECD Test Guideline 422         Dolomite:       :         Species       : Mouse         NOAEL       : 1,300 mg/kg         Application Route       : Ingestion         Exposure time       : 28 Days         Remarks       : Based on data from similar materials         Distillates (petroleum), hydrotreated heavy paraffinic:				t/mist/fume)
Species       : Rat         NOAEL       : > 1,000 mg/kg         Application Route       : Ingestion         Exposure time       : 28 Days         Method       : OECD Test Guideline 422         Dolomite:         Species       : Mouse         NOAEL       : 1,300 mg/kg         Application Route       : Ingestion         Exposure time       : 28 Days         Remarks       : Based on data from similar materials	Expos	sure time	: 28 Days	
NOAEL       : > 1,000 mg/kg         Application Route       : Ingestion         Exposure time       : 28 Days         Method       : OECD Test Guideline 422         Dolomite:				
Application Route       :       Ingestion         Exposure time       :       28 Days         Method       :       OECD Test Guideline 422         Dolomite:       .         Species       :       Mouse         NOAEL       :       1,300 mg/kg         Application Route       :       Ingestion         Exposure time       :       28 Days         Remarks       :       Based on data from similar materials         Distillates (petroleum), hydrotreated heavy paraffinic:       .				
Exposure time       : 28 Days         Method       : OECD Test Guideline 422         Dolomite:				
Method       : OECD Test Guideline 422         Dolomite:				
Species       : Mouse         NOAEL       : 1,300 mg/kg         Application Route       : Ingestion         Exposure time       : 28 Days         Remarks       : Based on data from similar materials				uideline 422
NOAEL       : 1,300 mg/kg         Application Route       : Ingestion         Exposure time       : 28 Days         Remarks       : Based on data from similar materials	Dolor	nite:		
Application Route       :       Ingestion         Exposure time       :       28 Days         Remarks       :       Based on data from similar materials         Distillates (petroleum), hydrotreated heavy paraffinic:				
Exposure time       : 28 Days         Remarks       : Based on data from similar materials         Distillates (petroleum), hydrotreated heavy paraffinic:				
Remarks       : Based on data from similar materials         Distillates (petroleum), hydrotreated heavy paraffinic:			0	
Distillates (petroleum), hydrotreated heavy paraffinic:				from similar materials
			ydrotreated heavy pa : Rabbit	raffinic:



Version 4.1	Revision Date: 10/11/2018	SDS Number: 594895-00010	Date of last issue: 10/01/2018 Date of first issue: 04/01/2016
Expos Metho Rema Speci NOAE Applic	cation Route sure time od arks es	<ul> <li>1,000 mg/kg</li> <li>Skin contact</li> <li>4 Weeks</li> <li>OECD Test Guid</li> <li>Based on data fit</li> <li>Rat</li> <li>&gt; 980 mg/m<sup>3</sup></li> <li>inhalation (dust/</li> <li>4 Weeks</li> </ul>	rom similar materials
-	um oxide:		
	EL cation Route sure time	: Rat : >= 0.399 mg/l : inhalation (dust/ : 90 Days : OECD Test Guid	
	lates (petroleum), hyd		finic:
	EL cation Route sure time od	: Rabbit : 1,000 mg/kg : Skin contact : 4 Weeks : OECD Test Guid : Based on data fi	deline 410 rom similar materials
	EL cation Route sure time	: Rat : > 980 mg/m³ : inhalation (dust/ : 4 Weeks : Based on data fi	mist/fume) rom similar materials
Distil	lates (petroleum), solv	/ent dewaxed light p	araffinic; baseoil - unspecified:
Speci NOAE Applic	es EL cation Route sure time od	: Rat : 1,000 mg/kg : Skin contact : 4 Weeks : OECD Test Guid	
••	EL cation Route sure time	: Rat : > 980 mg/m <sup>3</sup> : inhalation (dust/ : 4 Weeks : Based on data fi	mist/fume) rom similar materials
Distil	lates (petroleum), solv	vent-dewaxed heavy	paraffinic:
		: Rabbit : 1,000 mg/kg : Skin contact : 4 Weeks	



Vers 4.1	sion	Revision Date: 10/11/2018		OS Number: 4895-00010	Date of last issue: 10/01/2018 Date of first issue: 04/01/2016
	Methoo Remar		:	OECD Test Guide Based on data fro	eline 410 m similar materials
	••	- ation Route ure time	· · · · · · · · · · · · · · · · · · ·	Rat > 980 mg/m³ inhalation (dust/m 4 Weeks Based on data fro	ist/fume) om similar materials
	Distilla	ates (petroleum), hyd	rotr	eated light naphth	enic:
		- ation Route ure time		Rabbit 1,000 mg/kg Skin contact 4 Weeks OECD Test Guide	eline 410
	Calciu	m hydroxide:			
	•••	- ation Route ure time	: : : :	Mouse >= 1,300 mg/kg Ingestion 28 Days Based on data fro	om similar materials
		- ation Route ure time		Rat >= 0.107 mg/l inhalation (dust/m 28 Days OECD Test Guide	
	Acetic	acid:			
			: :	Rat, male 290 mg/kg Ingestion 8 Weeks	
	Quartz	:			
	Specie LOAEL	s ation Route		Humans 0.053 mg/m³ inhalation (dust/m These substance therefore do not o	ist/fume) (s) are inextricably bound in the product and ontribute to a dust inhalation hazard.
	Asnira	tion toxicity			

### Aspiration toxicity

Not classified based on available information.

### Components:

### Distillates (petroleum), hydrotreated light paraffinic:

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.



ersion .1	Revision Date: 10/11/2018		9S Number: 4895-00010	Date of last issue: 10/01/2018 Date of first issue: 04/01/2016
ECTION	12. ECOLOGICAL INFO	ORN	IATION	
Ecoto	oxicity			
<u>Comp</u>	oonents:			
Distill	ates (petroleum), hydr	otre	eated heavy naph	thenic:
Toxici	ty to fish	:	Exposure time: 96 Method: OECD T	
	ty to daphnia and other ic invertebrates	:	Exposure time: 48	nagna (Water flea)): > 10,000 mg/l 3 h on data from similar materials
Toxici	ty to algae	:	mg/l Exposure time: 72 Method: OECD T	
	ty to daphnia and other ic invertebrates (Chron- city)	:	Exposure time: 2	nagna (Water flea)): 10 mg/l l d on data from similar materials
Toxici	ty to microorganisms	:	NOEC: > 1.93 mg Exposure time: 10 Remarks: Based	
Graph	nite:			
-	ty to fish	:	Exposure time: 96	Vater Accommodated Fraction
	ty to daphnia and other ic invertebrates	:	Exposure time: 48	Vater Accommodated Fraction
Toxici	ty to algae	:	mg/l Exposure time: 72	Vater Accommodated Fraction
			100 mg/l Exposure time: 72	Vater Accommodated Fraction
Toxici	ty to microorganisms	:	EC50: > 1,012.5 r	ng/l



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			Exposure time: 3 Method: OECD Te	h est Guideline 209
Resid	lual oils (petroleum), h	ydr	otreated:	
Toxici	ty to fish	:	LL50 (Pimephales Exposure time: 96 Method: OECD Te	
	ty to daphnia and other ic invertebrates	:	Exposure time: 48	agna (Water flea)): > 10,000 mg/l 3 h on data from similar materials
Toxici	ty to algae	:	mg/l Exposure time: 72 Method: OECD Te	
Talc:				
Toxici	ty to fish	:	LC50 (Brachydan Exposure time: 24	io rerio (zebrafish)): > 100,000 mg/l l h
Сорр	er metal powder:			
Toxici	ty to fish	:	LC50: > 10 - 100 Exposure time: 96	
Toxici icity)	ty to fish (Chronic tox-	:	NOEC: > 1 - 10 µ	g/l
	um carbonate:			
Toxici	ty to fish	:	Exposure time: 96	Vater Accommodated Fraction
	ty to daphnia and other	:		agna (Water flea)): > 100 mg/l
aquati	ic invertebrates		Exposure time: 48 Test substance: V Method: OECD Te	Vater Accommodated Fraction
Toxici	ty to algae	:	mg/l Exposure time: 72	Vater Accommodated Fraction
			mg/l Exposure time: 72	Vater Accommodated Fraction
Toxici	ty to microorganisms	:	NOEC: 1,000 mg/	1



Version 4.1	Revision Date: 10/11/2018		9S Number: 4895-00010	Date of last issue: 10/01/2018 Date of first issue: 04/01/2016
			Exposure time: 3 Method: OECD To	
			EC50: > 1,000 mg Exposure time: 3 Method: OECD To	h
Dolor	nite:			
Toxici	ty to fish	:	Exposure time: 96 Method: OECD To Remarks: No toxic	
	ty to daphnia and other ic invertebrates	:	Exposure time: 48 Method: OECD To Remarks: No toxio	
Toxici	ty to algae	:	Exposure time: 72 Method: OECD Te	
Distill	lates (petroleum), hydr	otre	eated heavy paraf	finic:
Toxici	ty to fish	:	Exposure time: 96 Method: OECD Te	
	ty to daphnia and other ic invertebrates	:	Exposure time: 48 Method: OECD Te	
Toxici	ty to algae	:	mg/l Exposure time: 72 Method: OECD To	
	ty to daphnia and other ic invertebrates (Chron- city)	:	Exposure time: 21 Method: OECD To	
Toxici	ty to microorganisms	:	NOEC: > 1.93 mg Exposure time: 10 Method: DIN 38 4 Remarks: Based o	) min

### Calcium oxide:



Vers 4.1	sion	Revision Date: 10/11/2018		S Number: 4895-00010	Date of last issue: 10/01/2018 Date of first issue: 04/01/2016
	Toxicity	∕ to fish	:	Exposure time: 96 Method: OECD Te	
		/ to daphnia and other invertebrates	:	Exposure time: 96 Method: OECD Te	
	Toxicity	∕ to algae	:	mg/l Exposure time: 72 Method: OECD Te	
				mg/l Exposure time: 72 Method: OECD Te	
		/ to daphnia and other invertebrates (Chron- ty)	:	Exposure time: 14	crangon (shrimp)): > 1 mg/l l d on data from similar materials
	Toxicity	∕ to microorganisms	:	Exposure time: 3 Method: OECD Te	
	Distilla	tes (petroleum), hydr	otre	ated light paraffir	nic:
	Toxicity			LL50 (Daphnia ma Exposure time: 48	agna (Water flea)): > 10,000 mg/l 3 h Vater Accommodated Fraction
	Toxicity	∕ to algae	:	mg/l Exposure time: 72	Vater Accommodated Fraction
		to daphnia and other invertebrates (Chron- ty)	:	Exposure time: 21	nagna (Water flea)): 10 mg/l d Vater Accommodated Fraction
	<b>Distilla</b> Toxicity		ent :	LC50 (Pimephales Exposure time: 96 Method: OECD Te	
	Toxicity	to daphnia and other	:	EC50 (Daphnia m	agna (Water flea)): > 10,000 mg/l
				34 / 43	



vertebrates algae daphnia and other vertebrates (Chron-	:	Exposure time: 48 h Method: OECD Test Guideline 202 Remarks: Based on data from similar materials EC50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: Based on data from similar materials NOEC (Daphnia magna (Water flea)): 10 mg/l Exposure time: 21 d Method: OECD Test Guideline 211 Remarks: Based on data from similar materials NOEC: > 1.93 mg/l
o daphnia and other vertebrates (Chron-		mg/l Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: Based on data from similar materials NOEC (Daphnia magna (Water flea)): 10 mg/l Exposure time: 21 d Method: OECD Test Guideline 211 Remarks: Based on data from similar materials
vertebrates (Chron-	:	Exposure time: 21 d Method: OECD Test Guideline 211 Remarks: Based on data from similar materials
o microorganisms	:	NOEC: > 1.93 mg/l
		Exposure time: 10 min Method: DIN 38 412 Part 8 Remarks: Based on data from similar materials
s (petroleum), solve	ent-	-dewaxed heavy paraffinic:
o fish	:	LC50 (Pimephales promelas (fathead minnow)): > 100 mg/l Exposure time: 96 h Method: OECD Test Guideline 203 Remarks: Based on data from similar materials
) daphnia and other vertebrates	:	EC50 (Daphnia magna (Water flea)): > 10,000 mg/l Exposure time: 48 h Method: OECD Test Guideline 202 Remarks: Based on data from similar materials
ə algae	:	EC50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: Based on data from similar materials
o daphnia and other vertebrates (Chron-	:	NOEC (Daphnia magna (Water flea)): 10 mg/l Exposure time: 21 d Method: OECD Test Guideline 211 Remarks: Based on data from similar materials
o microorganisms	:	NOEC: > 1.93 mg/l Exposure time: 10 min Method: DIN 38 412 Part 8 Remarks: Based on data from similar materials
s (natrolaum) hydr	otre	eated light nanhthenic.
) fish	:	LL50 (Pimephales promelas (fathead minnow)): > 100 mg/l Exposure time: 96 h Test substance: Water Accommodated Fraction
o daphnia and other vertebrates	:	EL50 (Daphnia magna (Water flea)): > 10,000 mg/l Exposure time: 48 h
	<ul> <li>daphnia and other vertebrates</li> <li>algae</li> <li>daphnia and other vertebrates (Chron-vertebrates (Chron-vertebrates (Chron-</li> <li>microorganisms</li> <li>s (petroleum), hydr</li> <li>fish</li> <li>daphnia and other</li> </ul>	<ul> <li>daphnia and other :</li> <li>vertebrates</li> <li>algae :</li> <li>daphnia and other :</li> <li>vertebrates (Chron-</li> <li>microorganisms :</li> <li>s (petroleum), hydrotre</li> <li>fish :</li> <li>daphnia and other :</li> </ul>



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	Test substance: Water Accommodated Fraction	
Toxicity to algae	<ul> <li>NOELR (Pseudokirchneriella subcapitata (green algae)): &gt;= 100 mg/l Exposure time: 72 h Test substance: Water Accommodated Fraction</li> </ul>	=
Toxicity to daphnia and oth aquatic invertebrates (Chro		
ic toxicity) Toxicity to microorganisms	: NOEC (Photobacterium phosphoreum): > 2.17 mg/l Exposure time: 4 d	
Calcium hydroxide:		
Toxicity to fish	: LC50 (Gasterosteus aculeatus (threespine stickleback)): 45 mg/l Exposure time: 96 h	57
Toxicity to daphnia and oth aquatic invertebrates	er : EC50 (Crangon crangon (shrimp)): 158 mg/l Exposure time: 96 h	
Toxicity to algae	<ul> <li>ErC50 (Pseudokirchneriella subcapitata (green algae)): 184.57 mg/l</li> <li>Exposure time: 72 h</li> <li>Method: OECD Test Guideline 201</li> </ul>	
	EC10 (Pseudokirchneriella subcapitata (green algae)): 79.2 mg/l Exposure time: 72 h Method: OECD Test Guideline 201	22
Toxicity to daphnia and oth aquatic invertebrates (Chro		
ic toxicity) Toxicity to microorganisms	: EC50: 300.4 mg/l Exposure time: 3 h Method: OECD Test Guideline 209	
Acetic acid:		
Toxicity to fish	: LC50 (Oncorhynchus mykiss (rainbow trout)): > 1,000 mg/l Exposure time: 96 h	
Toxicity to daphnia and oth aquatic invertebrates	er : EC50 (Daphnia magna (Water flea)): > 1,000 mg/l Exposure time: 48 h Method: OECD Test Guideline 202	
Toxicity to algae	: ErC50 (Skeletonema costatum (marine diatom)): > 1,000 m Exposure time: 72 h	ıg/l
Toxicity to microorganisms	: NOEC (Pseudomonas putida): 1,150 mg/l Exposure time: 16 h	



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Quar	tz:			
Ecoto	oxicology Assessmen	t		
Acute	aquatic toxicity	:	No toxicity at th	e limit of solubility.
Chror	nic aquatic toxicity	:	No toxicity at th	e limit of solubility.
	-	nch	· · · ·	Inaphthalenesulphonate):
Toxic	ity to fish	:	LC50 (Cyprinus Exposure time:	s carpio (Carp)): > 100 mg/l 96 h
			Test substance	: Water Accommodated Fraction
				Test Guideline 203 d on data from similar materials
	ity to daphnia and othe	r:		magna (Water flea)): > 100 mg/l
aquat	ic invertebrates		Exposure time: Test substance	48 h : Water Accommodated Fraction
				Test Guideline 202
<b>_</b> .				d on data from similar materials
Toxic	ity to microorganisms	:	EC10: 110 mg/ Exposure time:	
			Method: OECD	Test Guideline 209
			Remarks: base	d on data from similar materials
Persi	stence and degradabi	lity		
	<u>oonents:</u>			
	lates (petroleum), hyc			
Diode	gradability	:	Biodegradation	dily biodegradable. :2 - 4 %
			Exposure time:	28 d Test Guideline 301B
	<b>dual oils (petroleum)</b> , l gradability	hydr		tly biodegradable.
Diouc	gradability	•	Biodegradation	: 31 %
			Exposure time: Method: OECD	28 d Test Guideline 301F
	<b>lates (petroleum), hyc</b> gradability	lrotr		<b>affinic:</b> dily biodegradable.
BIOUE	grauability	•	Biodegradation	: 31 %
			Exposure time: Method: OECD	28 d Test Guideline 301F
	lates (petroleum), hyc gradability	lrotr		ffinic: dily biodegradable.
	gradability			
210			Biodegradation	: 31 %



ersion 1	Revision Date: 10/11/2018	SDS Number: 594895-00010	Date of last issue: 10/01/2018 Date of first issue: 04/01/2016
	<b>lates (petroleum), so</b> gradability	: Result: Not re Biodegradatio Exposure time	
Distil	lates (petroleum), so	olvent-dewaxed hea	vy paraffinic:
Biode	gradability	Biodegradatic Exposure time	
Distil	lates (petroleum), hy	/drotreated light na	ohthenic:
Biode	gradability	Biodegradatic Exposure time	
Aceti	c acid:		
Biode	gradability	: Result: Readi Biodegradatic Exposure time	
Calci	um bis(di C8-C10, bı	ranched, C9 rich, all	ylnaphthalenesulphonate):
	gradability	: Result: Not re Biodegradatic Exposure time Method: OEC	adily biodegradable. n: 16 %
Bioac	cumulative potentia	ıl	
<u>Comp</u>	oonents:		
	c acid:		
Bioac	cumulation	: Species: Fish Bioconcentrat	ion factor (BCF): 3.16
	on coefficient: n- ol/water	: log Pow: -0.1	7
	<b>ity in soil</b> ta available		
Other	adverse effects		



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#### SECTION 13. DISPOSAL CONSIDERATIONS

### **Disposal methods**

#### **SECTION 14. TRANSPORT INFORMATION**

### International Regulations

UNRTDG		
UN number	:	UN 3077
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
		(Copper metal powder)
Class	:	9
Packing group	:	
Labels	:	9
IATA-DGR		
UN/ID No.	:	UN 3077
Proper shipping name	:	Environmentally hazardous substance, solid, n.o.s. (Copper metal powder)
Class	:	9
Packing group	:	
Labels	:	Miscellaneous
Packing instruction (cargo aircraft)	:	956
Packing instruction (passen- ger aircraft)	:	956
Environmentally hazardous	:	yes
IMDG-Code		
UN number	:	UN 3077
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
		(Copper metal powder)
Class	:	9
Packing group	:	III
Labels	:	9
EmS Code	:	F-A, S-F
Marine pollutant	:	yes

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

### **Domestic regulation**

49 CFR



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Prop	D/NA number er shipping name	:	(Copper metal p	hazardous substance, solid, n.o.s. owder)
Class Pack Labe	ing group	:	9 III CLASS 9	
ERG	Code ne pollutant		171 yes(Copper meta	al powder) Ily to containers over 119 gallons or 450

### Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

### **SECTION 15. REGULATORY INFORMATION**

### **EPCRA - Emergency Planning and Community Right-to-Know**

#### **CERCLA Reportable Quantity**

Components	CAS-No.	Component RQ	Calculated product RQ
		(lbs)	(lbs)
Copper metal powder	7440-50-8	5000	61839
Alkylbenzene sulfonic acid	Not Assigned	1000	77303
Acetic acid	64-19-7	5000	*

\*: Calculated RQ exceeds reasonably attainable upper limit.

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

Components	CAS-No.	Component RQ	Calculated product RQ
		(lbs)	(lbs)
Sulphuric acid	7664-93-9	1000	*

\*: Calculated RQ exceeds reasonably attainable upper limit.

#### SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards	:	Serious eye dama	age or eye irritation	
SARA 313	:	•	ponents are subject to RA Title III, Section 31	
		Copper metal powder	7440-50-8	>= 5 - < 10 %

#### **US State Regulations**

### Pennsylvania Right To Know

64742-52-5 7782-42-5
64742-57-0
14807-96-6
7440-50-8
471-34-1



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	Dolomite			16389-88-1		
	Distillates (petro	avy paraffinic	64742-54-7			
	Calcium oxide 1305-78-8 Distillates (petroleum), solvent dewaxed light paraffinic; 64742-56-9 baseoil - unspecified					
	Distillates (petroleum), hydrotreated light paraffinic64742-55-8Distillates (petroleum), solvent-dewaxed heavy paraffinic64742-65-0Distillates (petroleum), hydrotreated light naphthenic64742-53-6Calcium hydroxide1305-62-0Acetic acid64-19-7					
	Quartz 14808-60-7					
	Sulphuric acid			7664-93-9		

### California Prop. 65

WARNING: This product can expose you to chemicals including Quartz, which is/are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

### **California List of Hazardous Substances**

Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5			
Graphite	7782-42-5			
Residual oils (petroleum), hydrotreated	64742-57-0			
Talc	14807-96-6			
Copper metal powder	7440-50-8			
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7			
Calcium oxide	1305-78-8			
Distillates (petroleum), solvent dewaxed light paraffinic; baseoil - unspecified	64742-56-9			
Distillates (petroleum), hydrotreated light paraffinic	64742-55-8			
Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0			
Calcium hydroxide	1305-62-0			
Acetic acid	64-19-7			
California Permissible Exposure Limits for Chemical Contaminants				
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5			
Graphite	7782-42-5			
Residual oils (petroleum), hydrotreated	64742-57-0			
Talc	14807-96-6			
Copper metal powder	7440-50-8			
Calcium carbonate	471-34-1			
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7			
Calcium oxide	1305-78-8			
Distillates (petroleum), solvent dewaxed light paraffinic; baseoil - unspecified	64742-56-9			
Distillates (petroleum), hydrotreated light paraffinic	64742-55-8			
Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0			
Distillates (petroleum), hydrotreated light naphthenic	64742-53-6			
Calcium hydroxide	1305-62-0			
Acetic acid	64-19-7			
Quartz	14808-60-7			
California Regulated Carcinogens				
Quartz	14808-60-7			
The ingredients of this product are reported in the following invento	ries:			

AICS

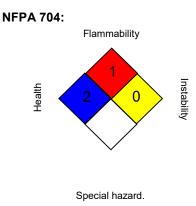
: All ingredients listed or exempt.



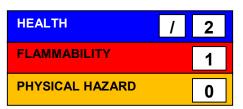
VersionRevision Date:SDS Number:Date of last issue:4.110/11/2018594895-00010Date of first issue:	
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#### **SECTION 16. OTHER INFORMATION**

#### Further information



#### HMIS® IV:



HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "\*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

#### Full text of other abbreviations

ACGIH NIOSH REL OSHA Z-1	:	USA. ACGIH Threshold Limit Values (TLV) USA. NIOSH Recommended Exposure Limits USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim- its for Air Contaminants
OSHA Z-3	:	USA. Occupational Exposure Limits (OSHA) - Table Z-3 Min- eral Dusts
ACGIH / TWA	:	8-hour, time-weighted average
ACGIH / STEL	:	Short-term exposure limit
NIOSH REL / TWA	:	Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
NIOSH REL / ST	:	STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday
OSHA Z-1 / TWA	:	8-hour time weighted average
OSHA Z-3 / TWA		8-hour time weighted average

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EMS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemical Organisation for Standardization; KECI - Korea Existing Ch



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cals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act: SDS - Safety Data Sheet: TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG -United Nations Recommendations on the Transport of Dangerous Goods: vPvB - Verv Persistent and Very Bioaccumulative

Sources of key data used to	:	Internal technical data, data from raw material SDSs, OECD
compile the Material Safety		eChem Portal search results and European Chemicals Agen-
Data Sheet		cy, http://echa.europa.eu/

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

US / Z8