HALLIBURTON

SAFETY DATA SHEET

according to Regulation (EC) No. 453/2010

OBM RECLASS XP-07

Revision Date: 24-Sep-2015 Revision Number: 2

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product Identifier

Product Name OBM RECLASS XP-07

Internal ID Code HM008158

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended Use Mud System

1.3. Details of the supplier of the safety data sheet

Halliburton Energy Services

Halliburton House, Howemoss Place

Kirkhill Industrial Estate

Dyce

Aberdeen, AB21 0GN United Kingdom

www.halliburton.com

For further information, please contact

E-Mail address: fdunexchem@halliburton.com

1.4. Emergency telephone number

+44 8 08 189 0979 / 1-760-476-3961

Emergency telephone - §	45 - (EC)1272/2008						
Europe	Centar za kontrolu otrovanja (CKO): (+385 1) 23-48-342 (Poison Control Center (PCC) - Institute for Medical Research and Occupational Health)						
Croatia							
Cyprus	+210 7793777						
Denmark	Poison Control Hotline (DK): +45 82 12 12 12						
France	ORFILA (FR): + 01 45 42 59 59						
Germany	Poison Center Berlin (DE): +49 030 30686 790						
Italy	Poison Center, Milan (IT): +39 02 6610 1029						
Netherlands	National Poisons Information Center (NL): +31 30 274 88 88 (NB: this service is only available to health professionals)						
Norway	Poisons Information (NO):+ 47 22 591300						
Poland	Poison Control and Information Centre, Warsaw (PL): +48 22 619 66 54; +48 22 619 08 97						
Romania	+40 21 318 36 06						
Spain	Poison Information Service (ES): +34 91 562 04 20						
United Kingdom	NHS Direct (UK): +44 0845 46 47						

SECTION 2: Hazards Identification

2.1. Classification of the substance or mixture

REGULATION (EC) No 1272/2008

REGULATION (EG) NO 1212/2000	
Aspiration Category	Category 1 - H304
Serious Eye Damage / Eye Irritation	Category 2 - H319
Skin Sensitization	Category 1 - H317

2.2. Label Elements

Hazard Pictograms



Signal Word Danger

Hazard Statements

H304 - May be fatal if swallowed and enters airways

H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation

Precautionary Statements - EU (§28, 1272/2008)

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

Contains

Substances CAS Number Paraffin, petroleum, normal C5-C20 64771-72-8 Paraffins, petroleum, normal C>10 64771-71-7 Calcium chloride 10043-52-4 Fatty acid, tall-oil, reaction product with diethylenetriamine, 68990-47-6 maleic anhydride, tetraethylenepentamine, and

triethylenetetramine

2.3. Other Hazards

Repeated exposure may cause skin dryness or cracking

SECTION 3: Composition/information on Ingredients

Substances	EINECS CAS PERCENT EU - CLP Substance Number (w/w) Classification				REACH No.
Paraffin, petroleum, normal C5-C20	265-233-4	64771-72-8	10 - 30%	Asp. Tox. 1 (H304) (EUH066)	No data available
Paraffins, petroleum, normal C>10	265-232-9	64771-71-7	10 - 30%	Asp. Tox. 1 (H304)	No data available
Calcium chloride	233-140-8	10043-52-4	1 - 5%	Eye Irrit. 2A (H319)	01-2119494219-28
Fatty acid, tall-oil, reaction product with diethylenetriamine, maleic anhydride, tetraethylenepentamine, and triethylenetetramine	273-601-0	68990-47-6	1 - 5%	Skin Sens. 1 (H317)	01-2119496070-42

For the full text of the H-phrases mentioned in this Section, see Section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation If inhaled, move victim to fresh air and seek medical attention.

In case of contact, immediately flush eyes with plenty of water for at least 15 **Eyes**

minutes and get medical attention if irritation persists.

Skin Wash with soap and water. Get medical attention if irritation persists. Remove

contaminated clothing and launder before reuse.

Ingestion

Get medical attention! If vomiting occurs, keep head lower than hips to prevent aspiration. Rinse mouth. Never give anything by mouth to an unconscious person.

4.2. Most Important symptoms and effects, both acute and delayed

May cause allergic skin reaction. Prolonged or repeated exposure may cause damage to organs. Causes serious eye irritation. Aspiration into the lungs may cause chemical pneumonitis including coughing, difficulty breathing, wheezing, coughing up blood and pneumonia, which can be fatal.

4.3. Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically

SECTION 5: Firefighting Measures

5.1. Extinguishing media

Suitable Extinguishing Media

Water fog, carbon dioxide, foam, dry chemical.

Extinguishing media which must not be used for safety reasons

Do NOT spray pool fires directly with water. A solid stream of water directed into hot burning liquid can cause splattering.

5.2. Special hazards arising from the substance or mixture

Special Exposure Hazards

Use water spray to cool fire exposed surfaces. Closed containers may explode in fire. Decomposition in fire may produce harmful gases.

5.3. Advice for firefighters

Special Protective Equipment for Fire-Fighters

Full protective clothing and approved self-contained breathing apparatus required for fire fighting personnel.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use appropriate protective equipment. Wear self-contained breathing apparatus in enclosed areas.

See Section 8 for additional information

6.2. Environmental precautions

Prevent from entering sewers, waterways, or low areas.

6.3. Methods and material for containment and cleaning up

Isolate spill and stop leak where safe. Remove ignition sources and work with non-sparking tools. Contain spill with sand or other inert materials. Scoop up and remove.

6.4. Reference to other sections

See Section 8 and 13 for additional information.

SECTION 7: Handling and Storage

7.1. Precautions for Safe Handling

Avoid contact with eyes, skin, or clothing. Avoid breathing vapors. Avoid breathing mist. Wash hands after use. Launder contaminated clothing before reuse. Material is slippery underfoot. Ground and bond containers when transferring from one container to another.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Store away from oxidizers. Keep from heat, sparks, and open flames. Keep container closed when not in use.

7.3. Specific End Use(s)

Exposure Scenario No information available Other Guidelines No information available

SECTION 8: Exposure Controls/Personal Protection

8.1. Control parameters

Exposure Limits

Substances	CAS Number	EU	UK	Netherlands	France
Paraffin, petroleum, normal C5-C20	64771-72-8	Not applicable	Not applicable	Not applicable	Not applicable
Paraffins, petroleum, normal C>10	64771-71-7	Not applicable	Not applicable	Not applicable	Not applicable
Calcium chloride	10043-52-4	Not applicable	10 mg/m ³	Not applicable	Not applicable
Fatty acid, tall-oil, reaction product with diethylenetriamine, maleic anhydride, tetraethylenepentamine, and triethylenetetramine	68990-47-6	Not applicable	Not applicable	Not applicable	Not applicable

Substances	CAS Number	Germany	Spain	Portugal	Finland
Paraffin, petroleum, normal C5-C20	64771-72-8	Not applicable	Not applicable	Not applicable	Not applicable
Paraffins, petroleum, normal C>10	64771-71-7	Not applicable	Not applicable	Not applicable	Not applicable
Calcium chloride	10043-52-4	Not applicable	Not applicable	Not applicable	Not applicable
Fatty acid, tall-oil, reaction product with diethylenetriamine, maleic anhydride, tetraethylenepentamine, and triethylenetetramine	68990-47-6	Not applicable	Not applicable	Not applicable	Not applicable

Substances	CAS Number	Austria	Ireland	Switzerland	Norway
Paraffin, petroleum, normal C5-C20	64771-72-8	Not applicable	Not applicable	Not applicable	Not applicable
Paraffins, petroleum, normal C>10	64771-71-7	Not applicable	Not applicable	Not applicable	Not applicable
Calcium chloride	10043-52-4	Not applicable	Not applicable	Not applicable	Not applicable
Fatty acid, tall-oil, reaction product with diethylenetriamine, maleic anhydride, tetraethylenepentamine, and triethylenetetramine	68990-47-6	Not applicable	Not applicable	Not applicable	Not applicable

Substances	CAS Number	Italy	Poland	Hungary	Czech Republic
Paraffin, petroleum, normal C5-C20	64771-72-8	Not applicable	Not applicable	Not applicable	Not applicable
Paraffins, petroleum, normal C>10	64771-71-7	Not applicable	Not applicable	Not applicable	Not applicable
Calcium chloride	10043-52-4	Not applicable	Not applicable	Not applicable	TWA: 5 mg/m ³
Fatty acid, tall-oil, reaction product with diethylenetriamine, maleic anhydride, tetraethylenepentamine, and triethylenetetramine	68990-47-6	Not applicable	Not applicable	Not applicable	Not applicable

Substances	CAS Number	Denmark	Romania	Croatia	Cyprus
Paraffin, petroleum, normal C5-C20	64771-72-8	Not applicable	Not applicable	Not applicable	Not applicable
Paraffins, petroleum, normal C>10	64771-71-7	Not applicable	Not applicable	Not applicable	Not applicable
Calcium chloride	10043-52-4	Not applicable	Not applicable	Not applicable	Not applicable
Fatty acid, tall-oil, reaction product with diethylenetriamine, maleic anhydride, tetraethylenepentamine, and triethylenetetramine	68990-47-6	Not applicable	Not applicable	Not applicable	Not applicable

Derived No Effect Level (DNEL) Worker

No information available.

Substances	Long-term	Acute / short	Long-term	Acute / short	Long-term	Acute / short	Long-term	Acute / short	Hazards for
	exposure -	term	exposure -	term	exposure -	term	exposure -	term	the eyes -
	systemic	exposure -	local effects,	exposure -	systemic	exposure -	local effects,	exposure -	local effects
	effects,	systemic	Inhalation	local effects,	effects,	systemic	Dermal	local effects,	
	Inhalation	effects,		Inhalation	Dermal	effects,		Dermal	

		Inhalation				Dermal			
Calcium chloride	Not available	Not available	5 mg/m³	10 mg/m ³	Not available	Not available	Not available	Not available	Not available
Fatty acid, tall-oil, reaction product with diethylenetriamine, maleic anhydride, tetraethylenepenta mine, and triethylenetetramin	14693 µg/m³	29386 µg/m³	14693 µg/m³			33332 µg/kg bw/day	1388 µg/cm²	1388 µg/cm²	Not available

General Population

Contorui i opuic	<u> </u>										
Substances	Long-term		Long-term		Long-term exposure -		Long-term		Long-term		Hazards
				exposure -							
	- ,	exposure -			1 '	exposure -	1	exposure -	1 1	exposure -	
	· · · · · ·	1-7	effects,		effects,	,	effects,		effects,	local	local
	Inhalation	,	Inhalation	,	Dermal		Dermal		l	,	effects
		Inhalation		Inhalation		Dermal		Dermal		Oral	
Calcium chloride	Not	Not	2.5 mg/m ³	5 mg/m ³	Not	Not	Not	Not	Not	Not	Not
	available	available			available	available	available	available	available	available	available
Fatty acid, tall-oil,	3623	7246	3623	3623	8333	16666	694	694	8333	16666	Not
	µg/m³	µg/m³	µg/m³	µg/m³	μg/kg		µg/cm²			, 0	available
with					bw/day	bw/day			bw/day	bw/day	
diethylenetriamin											
e, maleic											
anhydride,											
tetraethylenepent											
amine, and			1	1							
triethylenetetrami			1	1							1
ne				1							

Predicted No Effect Concentration (PNEC)

No information available.

Substances	Freshwater	Marine water	Intermittent	Sewage	Sediment	Sediment	Air	Soil	Secondary
			release	treatment plant	(freshwater)	(marine water)			poisoning
,	mg/L	0.000217 mg/L	0.0217 mg/L			18 mg/kg sediment dw	Not available	0 0	33.34 mg/kg food

8.2. Exposure controls Engineering Controls

Use approved industrial ventilation and local exhaust as required to maintain exposures below applicable exposure limits.

Personal protective equipment

If engineering controls and work practices cannot prevent excessive exposures, the selection and proper use of personal protective equipment should be determined by an industrial hygienist or other qualified professional based on the specific application of this product.

Respiratory Protection If engineering controls and work practices cannot keep exposure below occupational

exposure limits or if exposure is unknown, wear a NIOSH certified, European Standard EN 149, AS/NZS 1715:2009, or equivalent respirator when using this product. Selection of and instruction on using all personal protective equipment, including respirators, should be performed by an Industrial Hygienist or other qualified professional.

Hand Protection Nitrile gloves. Viton gloves

Skin Protection Rubber apron.

Eye ProtectionChemical goggles; also wear a face shield if splashing hazard exists. **Other Precautions**Eyewash fountains and safety showers must be easily accessible.

Environmental Exposure Controls No information available

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Physical State: Liquid Color: Brown

Odor: Hydrocarbon Odor Threshold: No information available

<u>Property</u> <u>Values</u>

Remarks/ - Method

pH:No data availableFreezing Point/RangeNo data availableMelting Point/RangeNo data available

Boiling Point/Range

Flash Point

Flammability (solid, gas) No data available

upper flammability limit lower flammability limit

Evaporation rateNo data availableVapor PressureNo data availableVapor DensityNo data available

Specific Gravity 1.1-2.1

Water SolubilityInsoluble in waterSolubility in other solventsNo data availablePartition coefficient: n-octanol/waterNo data available

Autoignition Temperature

Decomposition TemperatureNo data availableViscosityNo data availableExplosive PropertiesNo information availableOxidizing PropertiesNo information available

9.2. Other information

VOC Content (%) No data available

SECTION 10: Stability and Reactivity

10.1. Reactivity

Not expected to be reactive.

10.2. Chemical Stability

Stable

10.3. Possibility of Hazardous Reactions

Will Not Occur

10.4. Conditions to Avoid

Keep away from heat, sparks and flame.

10.5. Incompatible Materials

Strong oxidizers. Strong acids.

10.6. Hazardous Decomposition Products

Oxides of nitrogen. Carbon monoxide and carbon dioxide.

SECTION 11: Toxicological Information

11.1. Information on Toxicological Effects

Acute Toxicity

Inhalation May cause respiratory irritation. Excessive inhalation causes headache, dizziness,

nausea and incoordination.

Eye Contact Causes moderate eye irritation.

Skin Contact May cause an allergic skin reaction. Moderate Skin Irritation (after prolonged or repeated

contact): signs/symptoms can include redness, swelling, itching, and dryness.

Ingestion Aspiration into the lungs may cause chemical pneumonitis including coughing, difficulty

breathing, wheezing, coughing up blood and pneumonia, which can be fatal.

Toxicology data for the components

	CAS Number	LD50 Oral	LD50 Dermal	LC50 Inhalation
Paraffin, petroleum, normal C5-C20	64771-72-8	> 5000 mg/kg (Rat)	> 2000 mg.kg (Rabbit) (similar substance)	>1369 ppm (Rat, 8h, saturated) (similar substance)
Paraffins, petroleum, normal C>10	64771-71-7	> 5000 mg/kg (Rat) (similar substance)	> 2000 mg/kg (Rabbit) (similar substance)	> 1369 ppm (Rat, 4h, vapor) (saturation)
Calcium chloride	10043-52-4	> 1000 mg/kg (Rat) 2301 mg/kg (Rat)	5000 mg/kg (Rabbit)	No data available

		> 2000 mg/kg (Rat) 2240 mg/kg (Rat)		
Fatty acid, tall-oil, reaction product with diethylenetriamine, maleic anhydride, tetraethylenepentamine, and triethylenetetramine	68990-47-6	> 2020 mg/kg (Rat)	> 2000 mg/kg (Rat)	No data available

Substances	CAS Number	Skin corrosion/irritation
Paraffin, petroleum, normal C5-C20	64771-72-8	Not irritating to skin in rabbits.
Paraffins, petroleum, normal C>10	64771-71-7	Non-irritating to the skin (Rabbit) (similar substances)
Calcium chloride	10043-52-4	Causes mild skin irritation (Rabbit)
Fatty acid, tall-oil, reaction product with diethylenetriamine, maleic anhydride, tetraethylenepentamine, and triethylenetetramine	68990-47-6	Non-irritating to the skin

Substances	CAS Number	Eye damage/irritation
Paraffin, petroleum, normal C5-C20	64771-72-8	Non-irritating to rabbit's eye (similar substances)
Paraffins, petroleum, normal C>10	64771-71-7	Non-irritating to the eye (Rabbit) (similar substances)
Calcium chloride	10043-52-4	Causes severe eye irritation. (Rabbit)
Fatty acid, tall-oil, reaction product with diethylenetriamine, maleic anhydride, tetraethylenepentamine, and triethylenetetramine	68990-47-6	Non-irritating to the eye

Substances	CAS Number	Skin Sensitization
Paraffin, petroleum, normal C5-C20	64771-72-8	Did not cause sensitization on laboratory animals (guinea pig) Patch test on human volunteers did not demonstrate irritating properties
Paraffins, petroleum, normal C>10	64771-71-7	Did not cause sensitization on humans or laboratory animals. (guinea pig) (similar substances)
Calcium chloride	10043-52-4	No information available
Fatty acid, tall-oil, reaction product with diethylenetriamine, maleic anhydride, tetraethylenepentamine, and triethylenetetramine	68990-47-6	Skin sensitizer in guinea pig.

	CAS Number	Respiratory Sensitization
Paraffin, petroleum, normal C5-C20	64771-72-8	No information available
Paraffins, petroleum, normal C>10	64771-71-7	No information available
Calcium chloride	10043-52-4	No information available
Fatty acid, tall-oil, reaction product with diethylenetriamine, maleic anhydride, tetraethylenepentamine, and triethylenetetramine	68990-47-6	No information available

	CAS Number	Mutagenic Effects
Paraffin, petroleum, normal C5-C20	64771-72-8	In vitro tests did not show mutagenic effects In vivo tests did not show mutagenic effects.
Paraffins, petroleum, normal C>10		In vitro tests did not show mutagenic effects In vivo tests did not show mutagenic effects. (similar substances)
Calcium chloride	10043-52-4	Did not show mutagenic effects in animal experiments
Fatty acid, tall-oil, reaction product with diethylenetriamine, maleic	68990-47-6	In vivo tests did not show mutagenic effects.

anhydride,	
tetraethylenepentamine,	
and triethylenetetramine	

Substances	CAS Number	Carcinogenic Effects
Paraffin, petroleum, normal C5-C20	64771-72-8	Not regarded as carcinogenic. (similar substances)
Paraffins, petroleum, normal C>10	64771-71-7	Not regarded as carcinogenic. (similar substances)
Calcium chloride	10043-52-4	No information available.
Fatty acid, tall-oil, reaction product with diethylenetriamine, maleic anhydride, tetraethylenepentamine, and triethylenetetramine	68990-47-6	No information available.

	CAS Number	Reproductive toxicity
Paraffin, petroleum, normal C5-C20		Animal testing did not show any effects on fertility. Did not show teratogenic effects in animal experiments. (similar substances)
Paraffins, petroleum, normal C>10		Animal testing did not show any effects on fertility. Did not show teratogenic effects in animal experiments. (similar substances)
Calcium chloride	10043-52-4	Animal testing did not show any effects on fertility.
Fatty acid, tall-oil, reaction product with diethylenetriamine, maleic anhydride, tetraethylenepentamine, and triethylenetetramine	68990-47-6	Animal testing did not show any effects on fertility.

Substances	CAS Number	STOT - single exposure
Paraffin, petroleum, normal C5-C20	64771-72-8	No significant toxicity observed in animal studies at concentration requiring classification.
Paraffins, petroleum, normal C>10	64771-71-7	No significant toxicity observed in animal studies at concentration requiring classification. (similar substances)
Calcium chloride	10043-52-4	No significant toxicity observed in animal studies at concentration requiring classification.
Fatty acid, tall-oil, reaction product with diethylenetriamine, maleic anhydride, tetraethylenepentamine, and triethylenetetramine	68990-47-6	No information available

Substances	CAS Number	STOT - repeated exposure
Paraffin, petroleum, normal C5-C20	64771-72-8	No significant toxicity observed in animal studies at concentration requiring classification. (similar substances)
Paraffins, petroleum, normal C>10	64771-71-7	No significant toxicity observed in animal studies at concentration requiring classification. (similar substances)
Calcium chloride	10043-52-4	No information available.
Fatty acid, tall-oil, reaction product with diethylenetriamine, maleic anhydride, tetraethylenepentamine, and triethylenetetramine	68990-47-6	No data of sufficient quality are available.

Substances	CAS Number	Aspiration hazard
Paraffin, petroleum, normal C5-C20		Aspiration into the lungs may cause chemical pneumonitis including coughing, difficulty breathing, wheezing, coughing up blood and pneumonia, which can be fatal.
Paraffins, petroleum, normal C>10		Aspiration into the lungs may cause chemical pneumonitis including coughing, difficulty breathing, wheezing, coughing up blood and pneumonia, which can be fatal.
Calcium chloride	10043-52-4	Not applicable
Fatty acid, tall-oil, reaction product with diethylenetriamine, maleic anhydride, tetraethylenepentamine, and triethylenetetramine	68990-47-6	Not applicable

SECTION 12: Ecological Information

12.1. Toxicity Ecotoxicity Effects

Substances	CAS Number	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Toxicity to Invertebrates
Paraffin, petroleum, normal C5-C20	64771-72-8	EC50 (72h) 6935.35 mg/L (Skeletonema costatum)	LC50 (96h) > 5000 mg/L (Pimephales promelas) LC50 (96h) > 1000 mg/L (Scophthalmus maximus)	No information available	
Paraffins, petroleum, normal C>10	64771-71-7	EL50 (72h) > 10000 mg/L (Skeletonema costatum) (similar substance)	LL50 (96h) > 1000 mg/L (Oncorhynchus mykiss) (similar substance) LL50 (96h) > 1028 mg/L (Scophthalmus maximus) (similar substance)	No information available	EL50 (48h) > 1000 mg/L (Daphnia Magna) (similar substance) EL50 (48h) > 1000 mg/L (Chaetogammarus marinus) (similar substance) EL50 (48h) > 10000 mg/L (Arcartia tonsa) (similar substance)
Calcium chloride	10043-52-4	ErC50 (72h) 2900 mg/L (Pseudokirchnerella subcapitata) ErC50 (72h) 4000 mg/L (Pseudokirchnerella subcapitata)	LC50 (96h) 4630 mg/L (Pimephales promelas) LC50 (48h) >6560 mg/L (Pimephales promelas) LC50 (24h) >6660 mg/L (Pimephales promelas)	No information available	EC50 (48h) 2400 mg/L (Daphnia magna) EC50 (21d) 610 mg/L (reproduction) (Daphnia magna)
Fatty acid, tall-oil, reaction product with diethylenetriamine, maleic anhydride, tetraethylenepentamine, and triethylenetetramine	68990-47-6	EC50 (72h) > 100 mg/L (growth rate) (Pseudokirchnerella subcapitata)	LC50 (96h) > 100 mg/L (Danio rerio)	EC50 (3h) > 100 mg/L (Activated sludge) (respiration rate)	IC50 (48h) > 100 mg/L (Daphnia magna)

12.2. Persistence and degradability

Substances	CAS Number	Persistence and Degradability
Paraffin, petroleum, normal C5-C20	64771-72-8	Readily biodegradable (74% @ 28d)
Paraffins, petroleum, normal C>10	64771-71-7	Readily biodegradable (80% @ 28d)
Calcium chloride	10043-52-4	The methods for determining biodegradability are not applicable to inorganic substances.
Fatty acid, tall-oil, reaction product with diethylenetriamine, maleic anhydride, tetraethylenepentamine, and triethylenetetramine	68990-47-6	Readily biodegradable (71% @ 28d)

12.3. Bioaccumulative potential

Substances	CAS Number	Log Pow
Paraffin, petroleum, normal C5-C20	64771-72-8	> 6
Paraffins, petroleum, normal C>10	64771-71-7	> 7.1
Calcium chloride	10043-52-4	No information available
Fatty acid, tall-oil, reaction product with diethylenetriamine, maleic anhydride, tetraethylenepentamine, and triethylenetetramine	68990-47-6	2.4

12.4. Mobility in soil

Substances	CAS Number	Mobility
Paraffin, petroleum, normal C5-C20	64771-72-8	No information available
Paraffins, petroleum, normal C>10	64771-71-7	No information available
Calcium chloride	10043-52-4	No information available
Fatty acid, tall-oil, reaction product with diethylenetriamine, maleic anhydride, tetraethylenepentamine, and triethylenetetramine	68990-47-6	No information available

12.5. Results of PBT and vPvB assessment

No information available.

Substances	PBT and vPvB assessment
Paraffin, petroleum, normal C5-C20	Not PBT/vPvB
Paraffins, petroleum, normal C>10	Not PBT/vPvB
Calcium chloride	Not applicable
Fatty acid, tall-oil, reaction product with diethylenetriamine, maleic anhydride, tetraethylenepentamine, and triethylenetetramine	Not PBT/vPvB

12.6. Other adverse effects

Endocrine Disruptor Information

This product does not contain any known or suspected endocrine disruptors

SECTION 13: Disposal Considerations

13.1. Waste treatment methods

Contaminated Packaging

Disposal Method

Disposal should be made in accordance with federal, state, and local regulations.

Follow all applicable national or local regulations.

SECTION 14: Transport Information

IMDG/IMO

UN Number:
UN Proper Shipping Name:
Transport Hazard Class(es):
Packing Group:
Not applicable
Environmental Hazards:
Not applicable
Not applicable

RID

UN Number:
UN Proper Shipping Name:
Transport Hazard Class(es):
Packing Group:
Not applicable
Not applicable
Not applicable
Not applicable

<u>ADR</u>

UN Number: Not restricted
UN Proper Shipping Name: Not restricted
Transport Hazard Class(es): Not applicable
Packing Group: Not applicable
Environmental Hazards: Not applicable

IATA/ICAO

UN Number:
UN Proper Shipping Name:
Transport Hazard Class(es):
Packing Group:
Not applicable
Environmental Hazards:
Not applicable
Not applicable

14.1. UN Number: Not restricted

14.2. UN Proper Shipping Name: Not restricted

14.3. Transport Hazard Class(es): Not applicable

14.4. Packing Group: Not applicable

14.5. Environmental Hazards: Not applicable

14.6. Special Precautions for User: None

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable

SECTION 15: Regulatory Information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

International Inventories

EINECS Inventory This product, and all its components, complies with EINECS

US TSCA Inventory All components listed on inventory or are exempt.

Canadian DSL Inventory Product contains one or more components not listed on the inventory.

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

Germany, Water Endangering

Classes (WGK)

WGK 2: Hazard to waters.

15.2. Chemical Safety Assessment

No information available

SECTION 16: Other Information

Full text of H-Statements referred to under sections 2 and 3

None

Key or legend to abbreviations and acronyms

bw - body weight

CAS - Chemical Abstracts Service

CLP - REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL on Classification,

Labelling and Packaging of substances and mixtures

EC - European Commission

EC10 - Effective Concentration 10%

EC50 - Effective Concentration 50%

EEC - European Economic Community

ErC50 - Effective Concentration growth rate 50%

IBC Code - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk

LC50 - Lethal Concentration 50%

LD50 - Lethal Dose 50%

LL0 - Lethal Loading 0%

LL50 - Lethal Loading 50%

MARPOL - International Convention for the Prevention of Pollution from Ships

mg/kg - milligram/kilogram

mg/L – milligram/liter

NIOSH - National Institute for Occupational Safety and Health

NOEC - No Observed Effect Concentration

NTP - National Toxicology Program

OEL - Occupational Exposure Limit

PBT – Persistent Bioaccumulative and Toxic

PC - Chemical Product category

PEL – Permissible Exposure Limit

ppm - parts per million

PROC - Process category

REACH - REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL concerning the

Registration, Evaluation, Authorisation and Restriction of Chemicals

STEL - Short Term Exposure Limit

SU - Sector of Use category

Key literature references and sources for data

www.ChemADVISOR.com/

Revision Date: 24-Sep-2015

Revision Note
Not applicable

This safety data sheet complies with the requirements of Regulation (EC) No. 453/2010

Disclaimer Statement

This information is furnished without warranty, expressed or implied, as to accuracy or completeness. The information is obtained from various sources including the manufacturer and other third party sources. The information may not be valid under all conditions nor if this material is used in combination with other materials or in any process. Final determination of suitability of any material is the sole responsibility of the user.

End of Safety Data Sheet