



SAFETY DATA SHEET

Issue date 16-Oct-2008

Revision Date 08-Jun-2015

Version 4

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name UNISLIK ST 50

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

Recommended use Oilfield Chemical
Uses advised against No information available

1.3. Details of the supplier of the safety data sheet

Supplier

CESI Chemical
1004 S. Plainsman Road
Marlow, OK 73055
Phone +1 (580) 658-6608
Fax +1 (580) 658-3223

CESI Chemical, Holland Branch
Waanderweg 64
7812 HZ, Emmen
The Netherlands
Phone +31 (0) 591-677550

For further information, please contact:

E-mail address information@flotekind.com

1.4. Emergency telephone number

Emergency telephone +1 405-282-8510

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Aspiration toxicity	Category 1
Skin corrosion/irritation	Category 2

Classification according to Directive 67/548/EEC or 1999/45/EC

Full text of R-phrases: see section 16

Symbol(s)

Xn - Harmful

R-code(s)

Xn;R65

R-phrases

R65 - Harmful: may cause lung damage if swallowed

2.2. Label Elements**Signal Word**

Danger

Hazard Statements

H304 - May be fatal if swallowed and enters airways

H313 - May be harmful in contact with skin

H315 - Causes skin irritation

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

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

P331 - Do NOT induce vomiting

2.3. Other information**3. COMPOSITION/INFORMATION ON INGREDIENTS****3.1. Substances**

Chemical Name	EC-No	CAS-No	Weight-%	Classification (67/548)	Classification (Reg. 1272/2008)	REACH Registration No.
Petroleum distillates, hydrotreated light	Present	64742-47-8	10-30	Xn; R65	Asp. Tox. 1 (H304)	No data available
Alcohols, ethoxylated	-	68439-50-9	1-5	-	-	No data available
Alcohols, ethoxylated	-	68551-12-2	1-5	-	-	No data available
Alcohols, ethoxylated	-	68002-97-1	1-5	-	-	No data available
Ammonium acetate	Present	631-61-8	7-13	-	-	No data available

Full text of R-phrases: see section 16**4. FIRST AID MEASURES****4.1. Description of first aid measures****Eye contact**

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.

Skin contact

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation persists, call a physician.

Ingestion

None under normal use. Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.

Inhalation

Move victim to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. If symptoms persist, call a physician.

4.2. Most important symptoms and effects, both acute and delayed**4.3. Indication of any immediate medical attention and special treatment needed.****Notes to physician**

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media

Use CO₂, dry chemical, or foam.

Extinguishing media which must not be used for safety reasons

No information available.

5.2. Special hazards arising from the substance or mixture

Special Hazard

None in particular.

5.3. Advice for firefighters

Special protective equipment for fire-fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Remove all sources of ignition. Evacuate personnel to safe areas. Ensure adequate ventilation. Use personal protective equipment as required.

Material can create slippery conditions. See Section 12 for additional Ecological information.

6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

6.3. Methods and material for containment and cleaning up

Prevent further leakage or spillage if safe to do so. Dike far ahead of liquid spill for later disposal.

Soak up with inert absorbent material. Clean up promptly by sweeping or vacuum. Keep in suitable, closed containers for disposal. Do not flush into surface water or sanitary sewer system.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation. Do not breathe vapors or spray mist. Keep away from open flames, hot surfaces and sources of ignition. Avoid contact with skin, eyes and clothing. Wear personal protective equipment. When using, do not eat, drink or smoke. Wash thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a cool, well-ventilated place. Keep in properly labeled containers.

7.3. Specific end uses

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Exposure Guidelines

Contains no substances with occupational exposure limit values

Exposure limits

Contains no substances with occupational exposure limit values

Chemical Name	European Union	United Kingdom	France	Spain	Germany
Petroleum distillates, hydrotreated light 64742-47-8	Not available	Not available	Not available	Not available	TWA: 20 ppm TWA: 140 mg/m ³ Ceiling / Peak: 40 ppm Ceiling / Peak: 280

					mg/m ³
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Derived No Effect Level (DNEL) No information available

Predicted No Effect Concentration (PNEC) No information available

8.2. Exposure controls

Engineering Measures

Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protective equipment

Eye Protection

Safety glasses with side-shields. Goggles.

Hand Protection

Impervious gloves.

Skin and body protection

Wear suitable protective clothing.

Respiratory protection

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Respiratory protection must be provided in accordance with current local regulations.

Hygiene measures

Provide regular cleaning of equipment, work area and clothing. Wash hands and face before breaks and immediately after handling the product. Avoid contact with skin, eyes and clothing. When using, do not eat, drink or smoke.

Environmental Exposure Controls Do not allow material to contaminate ground water system.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical State	Liquid	Appearance	opaque
Odor	Oily	Color	white

<u>Property</u>	<u>Values</u>	<u>Remarks/ Method</u>
pH	6.5-9	
Freezing Point	-20 °C / -4 °F	
Boiling point/boiling range		No data available
Flash Point	> 102 °C / > 215 °F	CC (closed cup)
Evaporation rate		No data available
Flammability (solid, gas)		No data available
Flammability Limits in Air		No data available
Upper flammability limit		
lower flammability limit		
Vapor pressure		No data available
Vapor density		No data available
Relative density	1.03-1.06	
Water solubility	negligible	
Solubility in other solvents		No data available
Partition coefficient: n-octanol/water		No data available
Autoignition temperature		No data available
Decomposition temperature		No data available
Kinematic viscosity		No data available
Explosive properties	No data available	
Oxidizing Properties	No data available	
Softening point		
Molecular Weight		
VOC Content	No data available	
Density Bulk Density	8.60-8.85 lb/gal	

10. STABILITY AND REACTIVITY

10.1. Reactivity

No data available.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous polymerization does not occur.

10.4. Conditions to Avoid

Heat, flames and sparks.

10.5. Incompatible Materials

Water.

10.6. Hazardous Decomposition Products

Carbon oxides. Nitrogen oxides (NOx). Sulfur oxides. Ammonia.

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects**Acute toxicity****Product Information****Inhalation**

There is no data available for this product. May cause irritation of respiratory tract.

Eye contact

Avoid contact with eyes. Irritating to eyes.

Skin contact

Avoid contact with skin. Irritating to skin. Prolonged skin contact may defat the skin and produce dermatitis.

Ingestion

Low order of toxicity based on components. Potential for aspiration if swallowed. Aspiration may cause pulmonary edema and pneumonitis.

LD50 Oral

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Petroleum distillates, hydrotreated light	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 5.2 mg/L (Rat) 4 h
Alcohols, ethoxylated	6.7 mL/kg, 6.57 g/kg (rat)	-	-

Chronic toxicity**Carcinogenicity**

Contains no ingredient listed as a carcinogen >0.1%
- California - Proposition 65 - Carcinogens List

Sensitization

No information available

Reproductive toxicity

No information available

Mutagenic effects

No information available

Developmental Toxicity

No information available

Teratogenicity

No information available

Target Organ Effects

No information available.

12. ECOLOGICAL INFORMATION

12.1. Toxicity**Ecotoxicity**

The environmental impact of this product has not been fully investigated.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Toxicity to daphnia and other aquatic invertebrates
Petroleum distillates,	-	45: 96 h Pimephales	-	-

hydrotreated light		promelas mg/L LC50 flow-through 2.2: 96 h Lepomis macrochirus mg/L LC50 static 2.4: 96 h Oncorhynchus mykiss mg/L LC50 static		
Ammonium acetate	-	1.06: 48 h Cyprinus carpio mg/L LC50	-	-

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

No information available.

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

No information available

12.6. Other adverse effects**13. DISPOSAL CONSIDERATIONS****13.1. Waste treatment methods****Waste from Residues/Unused Products**

Dispose of in accordance with local regulations.

Contaminated packaging

Do not re-use empty containers.

EWC Waste Disposal No.

According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used

14. TRANSPORT INFORMATION**Note**

DOT requirements specific to Hazardous Substances/Reportable Quantities may apply if the quantity in one package equals or exceeds the reportable quantity.

DOT

Not regulated

IMDG/IMO

Not regulated

ADR/RID

Not regulated

ICAO/IATA

Not regulated

15. REGULATORY INFORMATION**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****International Inventories**

TSCA	Complies
EINECS/ELINCS	Complies
DSL/NDSL	Complies
PICCS	-
ENCS	-

IECSC -
 AICS -
 KECL -

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
 EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
 DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List
 PICCS - Philippines Inventory of Chemicals and Chemical Substances
 ENCS - Japan Existing and New Chemical Substances
 IECSC - China Inventory of Existing Chemical Substances
 AICS - Australian Inventory of Chemical Substances
 KECL - Korean Existing and Evaluated Chemical Substances

15.2. Chemical Safety Assessment**US Federal Regulations****SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Ammonium acetate	5000 lb	-	RQ 5000 lb final RQ RQ 2270 kg final RQ

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

Chemical Name	WHMIS Hazard Class
Alcohols, ethoxylated	D2B
Ammonium acetate	Uncontrolled product according to WHMIS classification criteria

16. OTHER INFORMATION

NFPA	Health Hazard 2	Flammability 1	Stability 0	Physical and chemical hazards -
	HMIS	Health Hazard 2	Flammability 1	Physical Hazard 0
Personal protection - .				

**Full text of R-phrases referred to under sections 2 and 3**

R65 - Harmful: may cause lung damage if swallowed

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

H304 - May be fatal if swallowed and enters airways

H304 - May be fatal if swallowed and enters airways

H313 - May be harmful in contact with skin

H315 - Causes skin irritation

Prepared By HSE Department**Issue date** 16-Oct-2008**Revision Date** 08-Jun-2015**Revision Note** Not applicable.**This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.****US Only:** This safety data sheet complies with the requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.**Disclaimer**

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