

INGESTION: Essentially non-toxic. Ingestion is not considered a potential route of exposure. If ingested may cause a laxative effect.

SIGNS AND SYMPTOMS OF EXPOSURE: If exposed areas are flushed promptly and thoroughly with SOAP & water, there should be little or no harm.

Overexposure may lead to skin irritation or inflammation.

CHRONIC EFFECTS: Prolonged and/or repeated contact may produce mild to moderate skin irritation or inflammation.

REPRODUCTIVE HAZARDS: No reproductive hazards.

CARCINOGENICITY INFORMATION: This product has been shown not to be carcinogenic, it is not included as a carcinogen by IARC, OSHA, NTP, or EPA.

TARGET ORGAN: Skin, mucus membranes and lungs.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:

Personnel with pre-existing skin disorders and chronic respiratory diseases should avoid contact with this product.

MISCELLANEOUS: Solutions extremely slippery when spilled. Poses little or no immediate hazard.

4. FIRST AID MEASURES

EYE CONTACT FIRST AID:

Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation develops or persists.

SKIN CONTACT FIRST AID:

Immediately wash skin with plenty of soap and water while removing contaminated clothing and shoes. Get medical attention if irritation develops or persists.

INHALATION FIRST AID:

Although this product is not known to cause respiratory problems, if breathing is difficult, remove to fresh air and provide oxygen. Get medical attention if cough or other symptoms develop.

Remove from area of exposure. Seek immediate medical attention if respiratory irritation or distress continues.

INGESTION FIRST AID:

Ingestion is not considered a potential route of exposure. May act as a laxative. Give water or milk and induce vomiting. Get medical attention immediately.

STATEMENT OF PRACTICAL TREATMENT:

Always have plenty of water available for first aid.

NOTES TO PHYSICIAN:

Treat patient symptomatically.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

COC Flash Point: 165.6 C (330.1 F)

Auto-ignition Temperature: 329.4 C (624.9 F)

FLAMMABLE LIMITS IN AIR

LEL: 1.0 AP %

UEL: 7.0 AP %

FLAMMABLE PROPERTIES:

This product is considered Slightly Combustible! OSHA/NFPA Class-IIIB Combustible Liquid.

EXTINGUISHING MEDIA:

Carbon dioxide, foam, or dry powder.

FIRE & EXPLOSION HAZARDS:

Can release vapors that form explosive mixtures at temperatures at or above the flashpoint.

FIRE FIGHTING INSTRUCTIONS:

Contain runoff water. Contaminated extinguishing water must be disposed of in accordance with applicable regulations. As in any fire, wear

self-contained breathing apparatus pressure-demand MSHA/NIOSH (approved or equivalent) and full protective gear. Avoid breathing smoke, fumes, and decomposition products. Evacuate non-emergency personnel to a safe area. Water runoff can cause environmental damage. Comply with all laws and regulations.

COMBUSTION PRODUCTS:

Dense smoke may be generated while burning. Carbon Monoxide, carbon dioxide, and other oxides may be generated as products of combustion.

6. ACCIDENTAL RELEASE MEASURES**SAFEGUARDS (PERSONNEL):**

Eliminate all sources of ignition - heat, sparks, flame, electricity, impact and friction. Evacuate non-emergency personnel to a safe area. Review Fire Fighting Measures and Handling (Personnel) Sections before proceeding with clean-up. Wear appropriate personal protective equipment.

INITIAL CONTAINMENT:

Floor may become slippery. Contain spilled material. Absorb spills with inert material. Wash area to prevent slipping. Treat or dispose of waste material in accordance with all local, state/provincial, and national requirements.

LARGE SPILLS PROCEDURE:

Forms smooth, slippery surfaces on floors, posing an accident risk. Clean up spills immediately, observing precautions in Protective Equipment section. Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container. After removal, flush contaminated area thoroughly with soap and water. Dispose of in an approved sanitary landfill. Treat or dispose of waste material in accordance with all local, state/provincial, and national requirements. May be a regulated waste. Materials should be recycled if possible.

SMALL SPILLS PROCEDURE:

Floor may become slippery. Absorb spills with inert material. Avoid disposal into waste water treatment facilities. After cleaning spill with absorbent material wash area with soap and water. Treat or dispose of waste material in accordance with all local, state/provincial, and national requirements.

7. HANDLING AND STORAGE**RECOMMENDED STORAGE TEMPERATURE**

Minimum: 4.4 C (39.9 F) Maximum: 48.9 C (120.0 F)

SHELF LIFE: (in original, sealed containers)

>10 years @ 4.4 C >3 years @ 48.9 C

HANDLING (PERSONNEL):

Avoid contact with eyes, skin, and clothing. Empty drums should be completely drained (triple rinsed), properly bunged, and promptly returned to a drum re-conditioner, or properly disposed of. Wash hands thoroughly after handling. Wash contaminated clothing before reuse.

HANDLING (PHYSICAL ASPECTS):

Eliminate all sources of ignition - heat, sparks, flame, electricity, impact and friction. Keep container closed to avoid contamination. Avoid contact with strong oxidizing agents. Avoid extreme temperatures.

STORAGE PRECAUTIONS:

Store in a cool dry place. Do not stack drums more than three pallets high. Store in a tightly closed container.

MISCELLANEOUS: Do not stack over three pallets high.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: Good general ventilation should be sufficient to control airborne levels. Facilities storing or utilizing this material

should be equipped with an eyewash facility and a safety shower.

EYE / FACE PROTECTION REQUIREMENTS:

When splashing of the material may occur, chemical goggles and a face shield are recommended. This material does not have established exposure limits. A NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits.

SKIN PROTECTION REQUIREMENTS:

Wear protective gloves to minimize skin contact. Nitrile rubber and PVC are suitable protective materials; Neoprene is recommended. Wash hands thoroughly after handling.

RESPIRATORY PROTECTION REQUIREMENTS:

Under normal use conditions, with adequate ventilation, no special handling equipment is required. When there is potential for airborne exposures in excess of applicable limits, wear NIOSH/MSHA approved respiratory protection.

MISCELLANEOUS: Where an apron and protective clothing.

EXPOSURE GUIDELINES:

Severely hydrotreated heavy naphthenic distillate OSHA PEL: 5 mg/m³

9. PHYSICAL AND CHEMICAL PROPERTIES

FORM	Liquid
COLOR	light Brown
ODOR	hydrocarbon lube oil odor
BOILING POINT	> 500 F
VAPOR PRESSURE	<0.1 mm Hg @ 70 F
VAPOR DENSITY	>10 (Air = 1)
SOLUBILITY IN WATER	Emulsifiable
SPECIFIC GRAVITY	0.91 (Water = 1)
BULK DENSITY	7.6
MELTING/FREEZING POINT	-20 F
PH	N/A
% VOLATILES	Zero %
VISCOSITY	~100 SUS @ 100F
EVAPORATION RATE	<1 (EE=1)
VOLATILE ORGANIC COMPOUNDS (VOC) ...	Nil
PH (5% B.V.)	8.5

10. STABILITY AND REACTIVITY

STABILITY: Stable.

POLYMERIZATION: Hazardous polymerization will not occur.

INCOMPATIBILITY WITH OTHER MATERIALS: Avoid contact with strong oxidizing agents.

DECOMPOSITION: Decomposition may produce fumes, smoke, oxides of carbon and hydrocarbons. Decomposition will not occur if handled and stored properly.

CONDITIONS TO AVOID:

This material is safe under normal storage and handling conditions.

11. TOXICOLOGICAL INFORMATION

EYE EFFECTS:

This product is minimally irritating to the eyes upon direct contact.

SKIN EFFECTS: This product is not expected to cause any skin irritation upon direct single or repeated contact.

ACUTE ORAL EFFECTS: No know hazards in normal industrial use.

ACUTE INHALATION EFFECTS:

This product has a low vapor pressure and is not expected to present an

inhalation hazard at ambient conditions. Caution should be taken to prevent aerosolization or misting of this product. The permissible exposure limit (PEL) and Threshold Limit value (TLV) for this product as oil mist is 5 mg/m³. Exposures below 5 mg/m³ appear to be without significant health risk. The short term exposure limit for this product as an oil mist is 10 mg/m³.

REPRODUCTION AND BIRTH EFFECTS: There are no known or reported effects on reproductive function or fetal development.

CHRONIC EFFECTS: There are no known or reported effects from repeated exposure.

Severely Hydrotreated Heavy Napthenic Distillate

Test Code: Oral LD50 Species: Rat Results: > 5,000 mg/kg

12. ECOLOGICAL INFORMATION

No information available.

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL:

Un-cleaned empty containers should be disposed of in the same manner as the contents. Recycling of this material is recommended if possible, otherwise incinerate or bury in an approved sanitary landfill. Treat or dispose of waste material in accordance with all local, state/provincial, and national requirements. For additional waste disposal information contact your local NuGenTec representative at (888) 99-NuGen or (209) 234-5930.

CONTAMINATED MATERIALS: Wash contaminated clothing before reuse.

CONTAINER DISPOSAL:

Clean out containers prior to disposal. Misuse of containers may be hazardous. Empty containers can be dangerous if used to store toxic, flammable, or reactive materials. Cutting or welding containers might cause fire, explosion, or toxic fumes from residues. Do not pressurize or expose to open flames or heat. Keep container closed and drum bungs in place.

MISCELLANEOUS:

Maximize product use for reuse or recycling. Conditions may cause this product to become 'hazardous waste' as defined by state or federal laws.

14. TRANSPORTATION INFORMATION

PRODUCT LABEL: NuKut SO 25 Cl
D.O.T. SHIPPING NAME: Non-Regulated Material
TECHNICAL SHIPPING NAME: Class 55
D.O.T. HAZARD CLASS: Non-Hazardous
UN NUMBER: N/A
PRODUCT RQ (LBS): N/A
D.O.T. LABEL: NOBIN Non-Hazardous
D.O.T. PLACARD: N/A
BULK CLASS: N/A
PACKAGE CLASS: 55

15. REGULATORY INFORMATION

EEC Symbols and Indications of Danger: None

WHMIS Hazard Symbols: None

MISCELLANEOUS INFORMATION:

This material or all of its components are listed on the Inventory of Existing Chemical Substances under the Toxic Substance Control Act (TSCA). This material or all of its components are listed on the Canadian Domestic Substances List (DSL). This material or all of its components are listed (or considered as having been notified) on the European Inventory of Existing Chemical Substances (EINECS).

16. OTHER INFORMATION

PREPARED BY: Donato Polignone
APPROVAL DATE: December 20, 2003
SUPERCEDES DATE ...: November 7, 2003
PRD NUMBER: MGD306 (Official Copy)

ADDITIONAL INFORMATION:

The data in this Material Safety Data Sheet relates only to the specific material designated herein. It does not relate to use in combination with any other material or in any process.

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END OF MSDS
