

Material Name: Crude Oil Sour **SDS No. 6608 EU/CLP GHS** 

Synonyms: Sour Crude

## **Section 1 - Product and Company Identification**

#### **Manufacturer Information**

**Hess Corporation** 1 Hess Plaza

Woodbridge, NJ 07095-0961

Phone: 732-750-6000 Corporate EHS Emergency #800-424-9300 CHEMTREC

www.hess.com (Environment, Health, Safety Internet Website)

## **Section 2 - Hazards Identification**

### **GHS Classification:**

Flammable Liquids - Category 2

Acute Toxicity Inhalation - Category 3

Germ Cell Mutagenicity - Category 1B

Carcinogenicity - Category 1A

Specific Target Organ Toxicity Single Exposure - Category 3

Specific Target Organ Toxicity Repeat Exposure - Category 2

## **GHS LABEL ELEMENTS**

## Symbol(s)



### Signal Word

Danger

## **Hazard Statements**

Highly flammable liquid and vapor.

Toxic if inhaled.

May cause genetic defects.

May cause cancer.

May cause respiratory irritation.

May cause drowsiness or dizziness.

May cause damage to organs (liver, kidneys, blood, nervous system, and skin) through prolonged or repeated exposure.

### **Precautionary Statements**

#### Prevention

Keep away from heat/sparks/open flames/hot surfaces. No smoking

Keep container tightly closed.

Ground/bond container and receiving equipment.

Use explosion-proof electrical/ventilating/lighting/equipment.

Use only non-sparking tools.

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Take precautionary measures against static discharge.

Wear protective gloves/protective clothing/eye protection/face protection.

Do not breathe fume/gas/mist/vapors/spray.

Use only outdoors or in a well-ventilated area.

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

#### Response

IF ON SKIN (or hair): Wash with plenty of soap and water. Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF INHALED: Remove victim to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell.

IF exposed or concerned: Get medical advice/attention.

In case of fire: Use water spray, fog or fire fighting foam.

#### **Storage**

Store in a well-ventilated place. Keep cool.

Store locked up.

#### **Disposal**

Dispose of contents/container in accordance with local/regional/national/international regulations.

# \* \* \* Section 3 - Composition / Information on Ingredients \* \* \*

CAS#	Component	Percent
8002-05-9	Petroleum distillates (naphtha)	100
71-43-2	Benzene	<0.1-2
7783-06-4	Hydrogen sulfide	<1

A natural product derived from various oil production fields primarily consisting of a complex combination of paraffinic and aromatic hydrocarbons and small amounts of nitrogen and sulfur compounds.

Crude oils are generally referred to as "sour" if they can release dissolved hydrogen sulfide (H2S) which could result in a hazardous condition. The amount of dissolved H2S can vary considerably with the crude oil source. Some sour crude oils can have an appreciable percentage of H2S.

## \* \* \* Section 4 - First Aid Measures \* \* \*

## First Aid: Eyes

In case of contact with eyes, immediately flush with clean, low-pressure water for at least 15 min. Hold eyelids open to ensure adequate flushing. Seek medical attention.

#### First Aid: Skin

Remove contaminated clothing. Wash contaminated areas thoroughly with soap and water or waterless hand cleanser. Obtain medical attention if irritation or redness develops. Thermal burns require immediate medical attention depending on the severity and the area of the body burned.

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## First Aid: Ingestion

DO NOT INDUCE VOMITING. Do not give liquids. Obtain immediate medical attention. If spontaneous vomiting occurs, lean victim forward to reduce the risk of aspiration. Monitor for breathing difficulties. Small amounts of material which enter the mouth should be rinsed out until the taste is dissipated.

#### First Aid: Inhalation

Remove person to fresh air. If person is not breathing, provide artificial respiration. If necessary, provide additional oxygen once breathing is restored if trained to do so. Seek medical attention immediately.

## \* \* \* Section 5 - Fire Fighting Measures \* \* \*

### **General Fire Hazards**

See Section 9 for Flammability Properties.

Vapors may be ignited rapidly when exposed to heat, spark, open flame or other source of ignition. When mixed with air and exposed to an ignition source, flammable vapors can burn in the open or explode in confined spaces. Being heavier than air, vapors may travel long distances to an ignition source and flash back. Runoff to sewer may cause fire or explosion hazard.

#### **Hazardous Combustion Products**

Carbon monoxide, carbon dioxide and non-combusted hydrocarbons (smoke).

## **Extinguishing Media**

SMALL FIRES: Any extinguisher suitable for Class B fires, dry chemical, CO2, water spray, fire fighting foam, or gaseous extinguishing agent.

LARGE FIRES: Water spray, fog or fire fighting foam. Water may be ineffective for fighting the fire, but may be used to cool fire-exposed containers.

#### **Unsuitable Extinguishing Media**

None

## Fire Fighting Equipment/Instructions

Small fires in the incipient (beginning) stage may typically be extinguished using handheld portable fire extinguishers and other fire fighting equipment. Firefighting activities that may result in potential exposure to high heat, smoke or toxic by-products of combustion should require NIOSH/MSHA- approved pressure-demand self-contained breathing apparatus with full facepiece and full protective clothing. Isolate area around container involved in fire. Cool tanks, shells, and containers exposed to fire and excessive heat with water. For massive fires the use of unmanned hose holders or monitor nozzles may be advantageous to further minimize personnel exposure. Major fires may require withdrawal, allowing the tank to burn. Large storage tank fires typically require specially trained personnel and equipment to extinguish the fire, often including the need for properly applied fire fighting foam.

## \* \* \* Section 6 - Accidental Release Measures \* \* \*

#### **Recovery and Neutralization**

Carefully contain and stop the source of the spill, if safe to do so.

### **Materials and Methods for Clean-Up**

Take up with sand or other oil absorbing materials. Carefully shovel, scoop or sweep up into a waste container for reclamation or disposal.

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## **Emergency Measures**

Evacuate nonessential personnel and remove or secure all ignition sources. Consider wind direction; stay upwind and uphill, if possible. Evaluate the direction of product travel, diking, sewers, etc. to confirm spill areas. Product may release substantial amounts of flammable vapors and gases (e.g., methane, ethane, and propane), at or below ambient temperature depending on source and process conditions and pressure.

## **Personal Precautions and Protective Equipment**

Response and clean-up crews must be properly trained and must utilize proper protective equipment (see Section 8).

#### **Environmental Precautions**

Protect bodies of water by diking, absorbents, or absorbent boom, if possible. Do not flush down sewer or drainage systems, unless system is designed and permitted to handle such material. The use of fire fighting foam may be useful in certain situations to reduce vapors. The proper use of water spray may effectively disperse product vapors or the liquid itself, preventing contact with ignition sources or areas/equipment that require protection - do not discharge solid water stream patterns into the liquid resulting in splashing.

### **Prevention of Secondary Hazards**

None

## \* \* \* Section 7 - Handling and Storage \* \* \*

### **Handling Procedures**

Handle as a flammable liquid. Keep away from heat, sparks, and open flame! Electrical equipment should be approved for classified area. Bond and ground containers during product transfer to reduce the possibility of static-initiated fire or explosion.

## Storage Procedures

Keep away from flame, sparks, excessive temperatures and open flame. Use approved vented containers. Keep containers closed and clearly labeled. Empty product containers or vessels may contain explosive vapors. Do not pressurize, cut, heat, weld or expose such containers to sources of ignition.

Store in a well-ventilated area. This storage area should comply with NFPA 30 "Flammable and Combustible Liquid Code". Avoid storage near incompatible materials. The cleaning of tanks previously containing this product should follow API Recommended Practice (RP) 2013 "Cleaning Mobile Tanks In Flammable and Combustible Liquid Service" and API RP 2015 "Cleaning Petroleum Storage Tanks."

Hydrogen sulfide may accumulate in tanks and bulk transport compartments. Consider appropriate respiratory protection (see Section 8). Stand upwind. Avoid vapors when opening hatches and dome covers. Confined spaces should be ventilated prior to entry.

### Incompatibilities

Keep away from strong oxidizers.

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## \* \* \* Section 8 - Exposure Controls / Personal Protection \* \* \*

### **Component Exposure Limits**

#### Hydrogen sulfide (231-977-3)

ACGIH: 5 ppm STEL

1 ppm TWA

Austria: 10 ppm STEL [KZW]; 15 mg/m3 STEL [KZW]

10 ppm TWA [TMW]; 15 mg/m3 TWA [TMW]

Belgium: 10 ppm STEL; 14 mg/m3 STEL

5 ppm TWA; 7 mg/m3 TWA

Denmark: 10 ppm TWA; 15 mg/m3 TWA

Finland: 10 ppm STEL; 14 mg/m3 STEL; 15 ppm STEL (blasting and quarrying); 20 mg/m3 STEL

(blasting and quarrying)

5 ppm TWA; 7 mg/m3 TWA; 10 ppm TWA (blasting and quarrying); 15 mg/m3 TWA (blasting

and quarrying)

France: 10 ppm STEL [VLCT]; 14 mg/m3 STEL [VLCT]

5 ppm TWA [VME]; 7 mg/m3 TWA [VME]

Germany: 5 ppm TWA AGW (The risk of damage to the embryo or fetus can be excluded when MAK and

BAT values are observed, exposure factor 2); 7.1 mg/m3 TWA AGW (The risk of damage to the embryo or fetus can be excluded when MAK and BAT values are observed, exposure factor 2)

5 ppm TWA MAK; 7.1 mg/m3 TWA MAK

10 ppm Peak; 14.2 mg/m3 Peak

Greece: 15 ppm STEL; 21 mg/m3 STEL

10 ppm TWA; 15 mg/m3 TWA Ireland: 10 ppm STEL; 14 mg/m3 STEL

5 ppm TWA; 7 mg/m3 TWA

Netherlands: 2.3 mg/m3 TWA

Portugal: 10 ppm TWA [VLE-MP]

Spain: 15 ppm STEL [VLA-EC]; 21 mg/m3 STEL [VLA-EC]

10 ppm TWA [VLA-ED]; 14 mg/m3 TWA [VLA-ED]

Sweden: 10 ppm LLV; 14 mg/m3 LLV

15 ppm CLV; 20 mg/m3 CLV

### Benzene (200-753-7)

ACGIH: 2.5 ppm STEL

0.5 ppm TWA

Skin - potential significant contribution to overall exposure by the cutaneous route

Austria: skin notation

Belgium: 1 ppm TWA; 3.25 mg/m3 TWA

Skin

Denmark: 0.5 ppm TWA; 1.6 mg/m3 TWA

Potential for cutaneous absorption

Finland: 1 ppm TWA (dust); 3.25 mg/m3 TWA (dust)

Potential for cutaneous absorption

France: 1 ppm TWA [VME] (restrictive limit); 3.25 mg/m3 TWA [VME] (restrictive limit)

Greece: 1.0 ppm TWA; 3.19 mg/m3 TWA Ireland: 1 ppm TWA; 3 mg/m3 TWA

Potential for cutaneous absorption

Italy: 1 ppm TWA; 3.25 mg/m3 TWA

Netherlands: 3.25 mg/m3 TWA

skin notation

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Portugal: 0.5 ppm TWA [VLE-MP]

Spain: 1 ppm TWA [VLA-ED] (manufacturing, commercialization, and use restrictions under REACH);

3.25 mg/m3 TWA [VLA-ED] (manufacturing, commercialization, and use restrictions under

REACH)

skin - potential for cutaneous exposure

Sweden: 0.5 ppm LLV; 1.5 mg/m3 LLV

3 ppm STV; 9 mg/m3 STV

## **Engineering Measures**

Use adequate ventilation to keep vapor concentrations of this product below occupational exposure and flammability limits, particularly in confined spaces.

## Personal Protective Equipment: Respiratory

If a hydrogen sulfide hazard is present (that is, exposure potential above H2S permissible exposure limit), use a positive-pressure SCBA or Type C supplied air respirator with escape bottle.

Where it has been determined that there is no hydrogen sulfide exposure hazard (that is, exposure potential below H2S permissible exposure limit), a NIOSH-approved air-purifying respirator with organic vapor cartridges or canister may be permissible under certain circumstances where airborne concentrations are or may be expected to exceed exposure limits or for odor or irritation. Protection provided by air-purifying respirators is limited.

Use a positive pressure, air-supplied respirator if there is a potential for uncontrolled release, exposure levels are not known, in oxygen-deficient atmospheres, or any other circumstance where an air-purifying respirator may not provide adequate protection.

#### **Personal Protective Equipment: Hands**

Gloves constructed of nitrile or neoprene are recommended.

#### **Personal Protective Equipment: Eyes**

Safety glasses or goggles are recommended where there is a possibility of splashing or spraying.

### Personal Protective Equipment: Skin and Body

Chemical protective clothing such as of E.I. DuPont TyChem®, Saranex® or equivalent recommended based on degree of exposure. Note: The resistance of specific material may vary from product to product as well as with degree of exposure. Consult manufacturer specifications for further information.

#### **Hygiene Measures**

Emergency eye wash capability should be available in the near proximity to operations presenting a potential splash exposure. Use good personal hygiene practices. Avoid repeated and/or prolonged skin exposure. Wash hands before eating, drinking, smoking, or using toilet facilities. Do not use as a cleaning solvent on the skin. Do not use gasoline or solvents (naphtha, kerosene, etc.) for washing this product from exposed skin areas. Waterless hand cleaners are effective. Promptly remove contaminated clothing and launder before reuse. Use care when laundering to prevent the formation of flammable vapors which could ignite via washer or dryer. Consider the need to discard contaminated leather shoes and gloves.

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## \* \* \* Section 9 - Physical & Chemical Properties \* \* \*

Appearance: Thick, dark yellow to brown or Odor: Characteristic,

greenish black petroleum/asphalt-type odor

Physical State: Liquid pH: ND

Vapor Pressure:VariableVapor Density:3-5 typical

**Boiling Point**: AP 100-1000+ °F (>260 °C) **Melting Point**: ND

**Solubility (H2O):** Insoluble to slightly soluble **Specific Gravity:** AP 0.7-.0.9 (varies)

Evaporation Rate: Variable VOC: ND

Octanol/H2O Coeff.: ND Flash Point: <73 to >200 °F (<23 to >93°C)

Flash Point Method: ND Upper Flammability Limit ND

(UFL):

Lower Flammability Limit ND Burning Rate: ND

(LFL):

Auto Ignition: ND

Hydrogen sulfide (H<sub>2</sub>S) has a rotten egg "sulfurous" odor. This odor should not be used as a warning property of toxic levels because H<sub>2</sub>S can overwhelm and deaden the sense of smell. Also, the odor of H<sub>2</sub>S in heavy oils can easily be masked by the petroleum-like odor of the oil. Therefore, the smell of H<sub>2</sub>S should not be used as an indicator of a hazardous condition - a H<sub>2</sub>S meter or colorimetric indicating tubes are typically used to determine the concentration of H<sub>2</sub>S.

## \* \* \* Section 10 - Chemical Stability & Reactivity Information \* \* \*

## **Chemical Stability**

This is a stable material.

#### **Hazardous Reaction Potential**

Will not occur.

#### Conditions to Avoid

Avoid high temperatures, open flames, sparks, welding, smoking and other ignition sources.

#### **Incompatible Products**

Keep away from strong oxidizers.

#### **Hazardous Decomposition Products**

Carbon monoxide, carbon dioxide and non-combusted hydrocarbons (smoke). Burning crude oil with dissolved hydrogen sulfide can release sulfur dioxide. Contact with nitric and sulfuric acids will form nitrocresols that can decompose violently.

## \* \* \* Section 11 - Toxicological Information \* \* \*

#### **Acute Toxicity**

#### A: General Product Information

Harmful if swallowed.

#### B: Component Analysis - LD50/LC50

### Petroleum distillates (naphtha) (8002-05-9)

Oral LD50 Rat >4300 mg/kg; Dermal LD50 Rabbit >2000 mg/kg

Hydrogen sulfide (7783-06-4)

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Inhalation LC50 Rat 0.701 mg/L 4 h; Inhalation LC50 Rat 0.99 mg/L 1 h

#### Benzene (71-43-2)

Inhalation LC50 Rat 13050-14380 ppm 4 h; Oral LD50 Rat 1800 mg/kg

## Potential Health Effects: Skin Corrosion Property/Stimulativeness

Practically non-toxic if absorbed following acute (single) exposure. May cause skin irritation with prolonged or repeated contact. Liquid may be absorbed through the skin in toxic amounts if large areas of skin are exposed repeatedly. Rare, precancerous warts on the forearms, backs of hands and scrotum have been reported from prolonged or repeated skin contact.

## Potential Health Effects: Eye Critical Damage/ Stimulativeness

Contact with eyes may cause moderate to severe irritation.

## **Potential Health Effects: Ingestion**

Ingestion may cause gastrointestinal disturbances, including irritation, nausea, vomiting and diarrhea, and central nervous system (brain) effects similar to alcohol intoxication. In severe cases, tremors, convulsions, loss of consciousness, coma, respiratory arrest, and death may occur.

#### **Potential Health Effects: Inhalation**

Excessive exposure may cause irritations to the nose, throat, lungs and respiratory tract. Central nervous system (brain) effects may include headache, dizziness, loss of balance and coordination, unconsciousness, coma, respiratory failure, and death.

WARNING: Irritating and toxic hydrogen sulfide gas may be found in confined vapor spaces. Greater than 15 - 20 ppm continuous exposure can cause mucous membrane and respiratory tract irritation. 50 - 500 ppm can cause headache, nausea, and dizziness, loss of reasoning and balance, difficulty in breathing, fluid in the lungs, and possible loss of consciousness. Greater than 500 ppm can cause rapid or immediate unconsciousness due to respiratory paralysis and death by suffocation unless the victim is removed from exposure and successfully resuscitated.

The "rotten egg" odor of hydrogen sulfide is not a reliable indicator for warning of exposure, since olfactory fatigue (loss of smell) readily occurs, especially at concentrations above 50 ppm. At high concentrations, the victim may not even recognize the odor before becoming unconscious.

#### Respiratory Organs Sensitization/Skin Sensitization

This product is not reported to have any skin sensitization effects.

#### **Generative Cell Mutagenicity**

May cause genetic defects. Some crude oils and crude oil fractions have been positive in mutagenicity studies.

#### Carcinogenicity

### **A: General Product Information**

May cause cancer.

Studies have shown that similar products produce skin tumors in laboratory animals following repeated applications without washing or removal. The significance of this finding to human exposure has not been determined. Other studies with active skin carcinogens have shown that washing the animal's skin with soap and water between applications reduced tumor formation.

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This product contains benzene. Human health studies indicate that prolonged and/or repeated overexposure to benzene may cause damage to the blood-forming system (particularly bone marrow), and serious blood disorders such as aplastic anemia and leukemia. Benzene is listed as a human carcinogen by the NTP, IARC, OSHA and ACGIH.

### **B: Component Carcinogenicity**

#### Petroleum distillates (naphtha) (8002-05-9)

IARC: Monograph 45 [1989] (Group 3 (not classifiable))

#### Benzene (71-43-2)

ACGIH: A1 - Confirmed Human Carcinogen

OSHA: 5 ppm STEL (Cancer hazard, Flammable, See 29 CFR 1910.1028, 15 min); 0.5 ppm Action

Level; 1 ppm TWA

NIOSH: potential occupational carcinogen

NTP: Known Human Carcinogen (Select Carcinogen)

IARC: Monograph 100F [in preparation]; Supplement 7 [1987]; Monograph 29 [1982] (Group 1

(carcinogenic to humans))

## **Reproductive Toxicity**

This product is not reported to have any reproductive toxicity effects.

## **Specified Target Organ General Toxicity: Single Exposure**

This product is not reported to have any specific target organ general toxicity single exposure effects.

## **Specified Target Organ General Toxicity: Repeated Exposure**

May cause damage to organs (liver, kidneys, blood, nervous system and skin) through prolonged or repeated exposure.

## **Aspiration Respiratory Organs Hazard**

The major health threat of ingestion occurs from the danger of aspiration (breathing) of liquid drops into the lungs, particularly from vomiting. Aspiration may result in chemical pneumonia (fluid in the lungs), severe lung damage, respiratory failure and even death.

## \* \* \* Section 12 - Ecological Information \* \* \*

#### **Ecotoxicity**

### A: General Product Information

Keep out of sewers, drainage areas and waterways. Report spills and releases, as applicable, under Federal and State regulations.

#### B: Component Analysis - Ecotoxicity - Aquatic Toxicity

### Petroleum distillates (naphtha) (8002-05-9)

Test & Species Conditions

96 Hr LC50 Salmo gairdneri 258 mg/L [static]

24 Hr EC50 Daphnia magna 36 mg/L

48 Hr EC50 Daphnia magna <0.26 mg/L [Static]

#### Hydrogen sulfide (7783-06-4)

Test & Species Conditions

96 Hr LC50 Lepomis macrochirus 0.0448 mg/L [flow-

through]

96 Hr LC50 Pimephales promelas 0.016 mg/L [flow-

through]

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96 Hr LC50 Gammarus

pseudolimnaeus

0.022 mg/L

## Benzene (71-43-2)

**Test & Species Conditions** 

96 Hr LC50 Pimephales promelas

10.7-14.7 mg/L [flow-through]

96 Hr LC50 Oncorhynchus mykiss

5.3 mg/L [flowthrough]

96 Hr LC50 Lepomis macrochirus

22.49 mg/L [static] 28.6 mg/L [static]

96 Hr LC50 Poecilia reticulata 96 Hr LC50 Pimephales promelas

22330-41160 µg/L

96 Hr LC50 Lepomis macrochirus

[static] 70000-142000 µg/L

[static]

72 Hr EC50 Pseudokirchneriella

29 mg/L

subcapitata

48 Hr EC50 Daphnia magna

8.76 - 15.6 mg/L

[Static]

48 Hr EC50 Daphnia magna

10 mg/L

## Persistence/Degradability

No information available.

#### Bioaccumulation

No information available.

### **Mobility in Soil**

No information available.

# **Section 13 - Disposal Considerations**

### **Waste Disposal Instructions**

See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.

#### Disposal of Contaminated Containers or Packaging

Dispose of contents/container in accordance with local/regional/national/international regulations.

# **Section 14 - Transportation Information**

### **IATA Information**

Shipping Name: Petroleum Crude Oil

**UN #: 1267 Hazard Class: 3** 

## **ICAO** Information

Shipping Name: Petroleum Crude Oil

**UN #: 1267 Hazard Class: 3** 

#### **IMDG Information**

Shipping Name: Petroleum Crude Oil

**UN #: 1267 Hazard Class: 3** 

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## \* \* \* Section 15 - Regulatory Information \* \* \*

## **Regulatory Information**

### **Component Analysis – Inventory**

Component/CAS	EC#	EEC	CAN	TSCA
Petroleum distillates (naphtha)	232-298-5	EINECS	DSL	Yes
8002-05-9				
Hydrogen sulfide	231-977-3	EINECS	DSL	Yes
7783-06-4				
Benzene	200-753-7	EINECS	DSL	Yes
71-43-2				

## \* \* \* Section 16 - Other Information \* \* \*

## Key/Legend

ACGIH = American Conference of Governmental Industrial Hygienists; ADG = Australian Code for the Transport of Dangerous Goods by Road and Rail; ADR/RID = European Agreement of Dangerous Goods by Road/Rail; AS = Standards Australia; DFG = Deutsche Forschungsgemeinschaft; DOT = Department of Transportation; DSL = Domestic Substances List; EEC = European Economic Community; EINECS = European Inventory of Existing Commercial Chemical Substances; ELINCS = European List of Notified Chemical Substances; EU = European Union; HMIS = Hazardous Materials Identification System; IARC = International Agency for Research on Cancer; IMO = International Maritime Organization; IATA = International Air Transport Association; MAK = Maximum Concentration Value in the Workplace; NDSL = Non-Domestic Substances List; NFPA = National Fire Protection Association; NOHSC = National Occupational Health & Safety Commission; NTP = National Toxicology Program; STEL = Short-term Exposure Limit; TDG = Transportation of Dangerous Goods; TLV = Threshold Limit Value; TSCA = Toxic Substances Control Act; TWA = Time Weighted Average

#### Literature References

None

#### Other Information

Information presented herein has been compiled from sources considered to be dependable, and is accurate and reliable to the best of our knowledge and belief, but is not guaranteed to be so. Since conditions of use are beyond our control, we make no warranties, expressed or implied, except those that may be contained in our written contract of sale or acknowledgment.

Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, vendor assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material, even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in their use of the material.

End of Sheet

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