

SAFETY DATA SHEET

According to the Hazard Communication Standard, 29 CFR 1910.1200

HYDRANSAFE WG

SDS #: 083911

Section 1. Identification

GHS product identifier : HYDRANSAFE WG

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

Identified uses

Fire-resistant hydraulic fluid

Supplier's details

: TotalEnergies Marketing USA, Inc. 1201 Louisiana St. Suite 1800 Houston, TX 77002

Phone: 713-483-5000

ProductSafety@totalenergies.com

Emergency telephone number (with hours of operation)

.

1-866-928-0789 (For Emergencies, call CARECHEM 24/7 Domestic) 1-215-207-0061 (For Emergencies, call CARECHEM 24/7 International)

Section 2. Hazards identification

OSHA/HCS status

: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture

: ACUTE TOXICITY (oral) - Category 4 SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - Category 1

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 15%

GHS label elements

Hazard pictograms







Signal word

: Danger

Hazard statements

: Harmful if swallowed. Causes skin irritation.

Causes serious eye damage.

May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

Prevention

: Wear protective gloves. Wear eye or face protection. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.

Response

: IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. Rinse mouth. Take off contaminated clothing and wash it before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Date of revision : 2023/11/06 2 USA ENGLISH 1/14



SDS#: 083911

Storage

: Not applicable. **Disposal**

: Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazards not otherwise classified

: None known.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Ingredient name	% (w/w)	CAS number
dethylene glycol	≥50 - ≤75	111-46-6
Oxirane, 2-methyl-, polymer with oxirane, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1)	≥10 - ≤25	52624-57-4
decanoic acid	≤3	334-48-5
2-dimethylaminoethanol	≤3	108-01-0

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

Additional information : The product is made from synthetic base oils

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact

: Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.

Inhalation

: Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Skin contact

Get medical attention immediately. Call a poison center or physician. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Date of revision : 2023/11/06 2 USA **ENGLISH** 2/14



SDS #: 083911

Ingestion

: Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : Causes serious eye damage.

Inhalation : No known significant effects or critical hazards.

Skin contact : Causes skin irritation.

Ingestion : Harmful if swallowed.

Over-exposure signs/symptoms

Eye contact : Adverse symptoms may include the following:

pain watering redness

Inhalation : No specific data.

Skin contact: Adverse symptoms may include the following:

pain or irritation

redness

blistering may occur

Ingestion: Adverse symptoms may include the following:

stomach pains

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed.

The exposed person may need to be kept under medical surveillance for 48 hours.

Specific treatments: No specific treatment.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. If it is

suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water

before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing

media

: Use dry chemical, CO₂, water spray (fog) or foam.

Unsuitable extinguishing

media

: Do not use water jet.

Specific hazards arising from the chemical

: In a fire or if heated, a pressure increase will occur and the container may burst.

Date of revision : 2023/11/06 2 USA ENGLISH 3/14



SDS#: 083911

Hazardous thermal decomposition products : carbon monoxide carbon dioxide nitrogen oxides

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For nonemergency personnel".

Environmental precautions

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

Small spill

: Stop leak if without risk. Move containers from spill area. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor.

Large spill

: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures

: Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Date of revision : 2023/11/06 2 USA **ENGLISH**



SDS#: 083911

including any incompatibilities

Conditions for safe storage, : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
diethylene glycol	OARS WEEL (United States, 4/2022). TWA: 10 mg/m³ 8 hours.
Oxirane, 2-methyl-, polymer with oxirane, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1)	None.
decanoic acid	None.
2-dimethylaminoethanol	None.

Biological exposure indices

No exposure indices known.

Advisory OEL

: No known significant effects or critical hazards.

Appropriate engineering controls

: If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/ or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

Skin protection Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

: 2023/11/06 2 USA **ENGLISH** Date of revision 5/14



SDS#: 083911

Hydrocarbon-proof gloves

Fluorinated rubber

nitrile rubber

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and

the contact time.

Body protection : Personal protective equipment for the body should be selected based on the task being

performed and the risks involved and should be approved by a specialist before

handling this product.

Ensure adequate ventilation and check that a safe, breathable atmosphere is present **Respiratory protection**

before entry into confined spaces In case of insufficient ventilation, wear suitable respiratory equipment. The use of breathing apparatus must comply strictly with the manufacturer's instructions and the regulations governing their choices and uses

Section 9. Physical and chemical properties

The conditions of measurement of all properties are at standard temperature (20°C / 68°F) and pressure (1013 hPa) unless otherwise indicated

Appearance

: Liquid. [limpid] **Physical state**

Color : Red.

Odor : Amine-like. **Odor threshold** : Not available.

9 to 10

: Not available. **Melting point/freezing point** : 47°C (-52.6°F) **Pour point** : Not available. **Boiling point**

Flash point : Open cup: Not applicable.

: Not available. **Evaporation rate** Flammability (solid, gas) : Not available. Lower and upper explosive : Not available.

(flammable) limits

: Not available. Vapor pressure Vapor density : Not available.

Relative density : 1.09 [ASTM D 1298] : 1.09 g/cm³ [15°C] **Density**

Solubility(ies)

Media	Result
water	Easily soluble

: No. Miscible with water

Partition coefficient: n-

octanol/water

: Not applicable.

: 260°C (500°F) **Auto-ignition temperature Decomposition temperature** : Not available.

: Kinematic (40°C (104°F)): 46 mm²/s (46 cSt) [ASTM D 445] **Viscosity**

Flow time (ISO 2431) : Not available.

Particle characteristics

Date of revision : 2023/11/06 2 USA **ENGLISH**



SDS #: 083911

Median particle size : Not applicable.

Section 10. Stability and reactivity

Reactivity: No specific test data related to reactivity available for this product or its ingredients.

Chemical stability : Stable under recommended storage and handling conditions (see Section 7).

Possibility of hazardous reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : Keep away from extreme heat.

Incompatible materials : Strong oxidizing agents, strong acids, Strong bases

Hazardous decomposition

products

: carbon monoxide carbon dioxide nitrogen oxides

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/substance	Result	Species	Dose	Exposure	Test
øíethylene glycol	LC50 Inhalation Dusts and mists	Rat	>4.6 mg/l	4 hours	-
	LD50 Dermal	Rabbit	13300 mg/kg	-	-
	LD50 Oral	Rat	500 mg/kg ATE value	-	-
			Category 4		
Oxirane, 2-methyl-, polymer with oxirane, ether with 2-ethyl-2-(hydroxymethyl) -1,3-propanediol (3:1)	LD50 Oral	Rat	>2000 mg/kg	-	-
decanoic acid	LD50 Dermal	Rabbit	2500 mg/kg	-	-
	LD50 Oral	Rat	2500 mg/kg	-	OECD 401
2-dimethylaminoethanol	LC50 Inhalation Dusts and mists	Rat	5.9 mg/l	4 hours	OECD 403
	LC50 Inhalation Gas.	Rat	1641 ppm	4 hours	-
	LC50 Inhalation Vapor	Rat	5.9 mg/l	4 hours	-
	LD50 Dermal	Rabbit	1219 mg/kg	-	OECD 402
	LD50 Oral	Rat	1183 mg/kg	-	OECD 401

Conclusion/Summary

: Based on available data, the classification criteria are met.

Irritation/Corrosion

Product/substance	Result	Species	Score	Exposure	Test
₫ecanoic acid	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Severe irritant	Rabbit	-	24 hours 100 %	-

SkinBased on available data, the classification criteria are met.EyesBased on available data, the classification criteria are met.

 Date of revision
 : 2023/11/06
 2
 USA
 ENGLISH
 7/14



lotalEnergies sps #: 083911

Respiratory

: Based on available data, the classification criteria are not met.

Sensitization

Skin : Based on available data, the classification criteria are not met.Respiratory : Based on available data, the classification criteria are not met.

Mutagenicity

Conclusion/Summary: Based on available data, the classification criteria are not met.

Carcinogenicity

Conclusion/Summary: Based on available data, the classification criteria are not met.

Reproductive toxicity

Conclusion/Summary: Based on available data, the classification criteria are not met.

Teratogenicity

Conclusion/Summary: Based on available data, the classification criteria are not met.

Specific target organ toxicity (single exposure)

Name	3 3 3	Route of exposure	Target organs
2-dimethylaminoethanol	Category 3		Respiratory tract irritation

Conclusion/Summary: Sased on available data, the classification criteria are not met.

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
diethylene glycol	Category 2	-	-

Conclusion/Summary

: Based on available data, the classification criteria are met.

Aspiration hazard

Conclusion/Summary: Based on available data, the classification criteria are not met.

Information on the likely routes of exposure

: Not available.

Potential acute health effects

Eye contact : Causes serious eye damage.

Inhalation : No known significant effects or critical hazards.

Skin contact: Causes skin irritation.Ingestion: Harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact: Adverse symptoms may include the following:

pain watering redness

Inhalation : No specific data.

Skin contact: Adverse symptoms may include the following:

pain or irritation

redness

blistering may occur

Ingestion: Adverse symptoms may include the following:

stomach pains

Date of revision : 2023/11/06 2 USA ENGLISH 8/14



SDS #: 083911

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate

effects

Potential delayed effects : Not available.

Long term exposure

Potential immediate

: Not available.

: Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

General: May cause damage to organs through prolonged or repeated exposure.

Carcinogenicity : No known significant effects or critical hazards.
 Mutagenicity : No known significant effects or critical hazards.
 Reproductive toxicity : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Product/substance	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/ I)
F YDRANSAFE WG	829.3	34826.2	68101.5	244.8	N/A
diethylene glycol	500	13300	N/A	N/A	N/A
decanoic acid	2500	2500	N/A	N/A	N/A
2-dimethylaminoethanol	1183	1219	1641	5.9	5.9

Other information :

Not available.

Section 12. Ecological information

Toxicity

Product/substance	Result	Species	Exposure	Test
dethylene glycol	Acute EC50 9362 mg/l	Algae - green algae	96 hours	-
	Acute EC50 >10000 mg/l	Daphnia - <i>Daphnia magna</i>	24 hours	-
	Acute LC50 75200000 µg/l Fresh water	Fish - Pimephales promelas	96 hours	-
decanoic acid	Acute EC50 5.9 mg/l	Algae	72 hours	-
	Acute EC50 21 mg/l	Daphnia	48 hours	OECD 202
	Acute LC50 16 mg/l	Fish	96 hours	-
	Chronic NOEC 0.2 mg/l	Daphnia	21 hours	-
2-dimethylaminoethanol	Acute EC50 66.1 mg/l	Algae	72 hours	-
	Acute EC50 98.4 mg/l	Daphnia - Daphnia magna	48 hours	-
	Acute LC50 146.6 mg/l	Fish	96 hours	-

Persistence and degradability

 Date of revision
 : 2023/11/06
 2
 USA
 ENGLISH
 9/14



SDS # : 083911	
-----------------------	--

Product/substance	Aquatic half-life	Photolysis	Biodegradability
diethylene glycol	-		Readily
Oxirane, 2-methyl-, polymer	-	-	Not readily
with oxirane, ether with			
2-ethyl-2-(hydroxymethyl)			
-1,3-propanediol (3:1)			Daadily
2-dimethylaminoethanol	-	-	Readily

Bioaccumulative potential

Product/substance	LogK _{ow}	BCF	Potential
arethylene glycol decanoic acid	-1.98 4.02	100	Low High
2-dimethylaminoethanol	-0.55	-	Low

Mobility in soil

Soil/water partition coefficient (Koc)

Mobility in soil

- : Not available.
- : Siven its physical and chemical characteristics, the product generally shows low soil mobility Loss by evaporation is limited The product is insoluble and sinks in water

Other adverse effects

: No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	DOT Classification	IMDG	ICAO/IATA
UN/ID No	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-
Transport hazard class(es)	-	-	-
Packing group	-	-	-
Environmental hazards	No.	No.	No.

Date of revision : 2023/11/06 2 USA ENGLISH 10/14



SDS#: 083911

Additional information

Special precautions for user : Transport within user's premises: always transport in closed containers that are

upright and secure. Ensure that persons transporting the product know what to do in the

event of an accident or spillage.

Transport in bulk according : Not available.

to IMO instruments

Section 15. Regulatory information

U.S. Federal regulations : TSCA 8(a) CDR Exempt/Partial exemption: Not determined

Clean Air Act Section 112

(b) Hazardous Air **Pollutants (HAPs)** : Not listed

Clean Air Act Section 602 Class I Substances

: Not listed

Clean Air Act Section 602

Class II Substances

: Not listed

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List II Chemicals

(Essential Chemicals)

: Not listed

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification : ACUTE TOXICITY (oral) - Category 4

SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - Category 1

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

Composition/information on ingredients

Name	%	Classification
diethylene glycol	≥50 - ≤75	ACUTE TOXICITY (oral) - Category 4 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
Oxirane, 2-methyl-, polymer with oxirane, ether with 2-ethyl-2- (hydroxymethyl)-1,3-propanediol (3:1)	≥10 - ≤25	SERIOUS EÝE DAMAGE - Category 1
decanoic acid	≤3	SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A
2-dimethylaminoethanol	≤3	FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 3 SKIN CORROSION - Category 1B SERIOUS EYE DAMAGE - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3

Date of revision : 2023/11/06 2 USA **ENGLISH** 11/14



SDS#: 083911

State regulations

Massachusetts : The following components are listed: 2-(DIMETHYLAMINO) ETHANOL

New York : None of the components are listed.

New Jersey The following components are listed: DIMETHYLAMINOETHANOL

Pennsylvania : The following components are listed: ETHANOL, 2,2'-OXYBIS-; ETHANOL, 2-

(DIMETHYLAMINO)-

California Prop. 65

To the best of our knowledge, this product does not contain any substances known to the State of California to cause cancer, developmental and/or reproductive harm

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Turkey inventory

Australia inventory (AIIC) : Not determined. Canada inventory (DSL/NDSL) : Not determined. : Not determined. China inventory (IECSC) **Europe inventory (EC)** : Not determined.

: Japan inventory (CSCL): Not determined. Japan inventory

Japan inventory (ISHL): Not determined.

New Zealand Inventory of Chemicals (NZIoC) : Not determined. **Philippines inventory (PICCS)** : Not determined. : Not determined. **Korea inventory (KECI) Taiwan Chemical Substances Inventory (TCSI)** : Not determined. : Not determined. Thailand inventory

United States inventory (TSCA 8b) : All components are listed or exempted.

: Not determined. Vietnam inventory

The information stated in this section relates solely to the conformity of the chemical product with the countries Inventories. The information used to confirm the inventory status of this product may be based on additional data to the chemical composition shown in Section 3. Other regulations may apply for importation or marketing authorizations.

: Not determined.

: 2023/11/06 2 USA **ENGLISH** Date of revision 12/14



SDS #: 083911

Section 16. Other information

Hazardous Material Information System (U.S.A.)



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

National Fire Protection Association (U.S.A.)



Reprinted with permission from NFPA 704-2001, Identification of the Hazards of Materials for Emergency Response Copyright ©1997, National Fire Protection Association, Quincy, MA 02269. This reprinted material is not the complete and official position of the National Fire Protection Association, on the referenced subject which is represented only by the standard in its entirety.

Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

Procedure used to derive the classification

Classification	Justification
ACUTE TOXICITY (oral) - Category 4	Calculation method
SKIN IRRITATION - Category 2	Calculation method
SERIOUS EYE DAMAGE - Category 1	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2	Calculation method

History

Date of revision : 2023/11/06 previous revision date : 2022/06/14

Version : 2

Key to abbreviations : ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973

as modified by the Protocol of 1978. ("Marpol" = marine pollution)

N/A = Not available

SGG = Segregation Group

Date of revision : 2023/11/06 2 USA ENGLISH 13/14



SDS #: 083911

UN = United Nations

References : Not available.

▼ Indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Date of revision : 2023/11/06 2 USA ENGLISH 14/14