WARCO AW HYDRAULIC OILS ISO 22, 32, 46, 68, 100, 150, 220

Safety Data Sheet

According To Federal Register / Vol. 89, No. 98 / Monday, May 20, 2024 / Rules And Regulations And According To The Hazardous Products Regulation (December 15, 2022).
Revision Date: 12/23/2025 Date of Issue: 11/29/2011 Supersedes Date: 03/20/2023 Version: 4.0

SECTION 1: IDENTIFICATION

1.1. Product Identifier

Product Form: Mixture

Product Name: WARCO AW HYDRAULIC OILS ISO 22, 32, 46, 68, 100, 150, 220 **Product Code**: Prefix 31

Synonyms: Petroleum oil; Lube oil; Petroleum hydrocarbon; Lubricant.

SDS NO: 82551

1.2 Recommended Use and Restrictions on Use

Use Of The Substance/Mixture : For lubricating industrial gears. If this product is used in combination with other products, refer to the Safety Data Sheets for those products.

Restrictions On Use : No additional information available

1.3. Name, Address, and Telephone of the Responsible Party

For Product Manufactured in U.S.A.:
Manufacturer

US Global Petroleum
9101 W Fullerton Ave
Franklin Park, IL 60131-3408
Phone: 1-773-376-9660

1.4. Emergency Telephone Number

For Hazardous Materials [or Dangerous Goods] Incident
Spill, Leak, Fire, Exposure, or Accident
Call CHEMTREC 24 Hours
CHEMTREC Customer Number (CCN): 1025250
1-800-424-9300 / 703-527-3887

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture

GHS-US/CA Classification

Carcinogenicity, Category 1B H350

2.2. Label Elements

GHS-US/CA Labeling

Hazard Pictograms (GHS-US/CA) :



GHS08

Signal Word (GHS-US/CA) : Danger

Hazard Statements (GHS-US/CA) : H350 - May cause cancer.

Precautionary Statements (GHS-US/CA) : P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P280 - Wear protective gloves, protective clothing, and eye protection.
P308+P313 - IF exposed or concerned: Get medical advice or attention.
P405 - Store locked up.
P501 - Dispose of contents and/or container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulations.

2.3 Hazards associated with known or reasonably anticipated uses

If this product is used in unforeseeable chemical processes and not used as intended or reasonable, the hazards listed in Section 2.3 cannot cover all chemistries. Therefore, a Process Hazard Analysis (PHA) or other hazard assessment for additional specific end uses should be performed to ensure that hazards are fully understood, and adequate safety measures are in place. See Section 10 for relevant reactivity and stability information.

2.4. Other Hazards

Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

2.5 Unknown Acute Toxicity (GHS-US/CA)

No additional information available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance

Not applicable

3.2. Mixture

Name	Synonyms	Product Identifier	% *	GHS Ingredient Classification
Distillates, petroleum, hydrotreated heavy paraffinic	Petroleum distillates, hydrotreated heavy paraffinic / Distillates (petroleum), hydrotreated heavy paraffinic / Paraffin oil / Distillates, petroleum, hydrotreated heavy paraffinic (A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C20-50 and produces a finished oil of at least 100 SUS at 100°F (19cSt at 40°C). It contains a relatively large proportion of saturated hydrocarbons.) / Heavy paraffinic hydrotreated distillate / HYDROGENATED MINERAL OIL / Hydrogenated mineral oil	(CAS-No.) 64742-54-7	9 – 99	Not classified.
Residual oils, petroleum, solvent-dewaxed	Residual oils (petroleum), solvent dewaxed / Oils, petroleum, residual, solvent dewaxed / Residual oils, petroleum, solvent, dewaxed / Residual oils (petroleum), solvent-dewaxed / Paraffinic mineral oil / Residual oils, petroleum, solvent-dewaxed (A complex combination of hydrocarbons obtained by removal of long, branched chain hydrocarbons from a residual oil by solvent crystallization. It consists of hydrocarbons having carbon numbers predominantly >C25 and boiling above approximately 400°C.) / Paraffinic oil / Residual oils, solvent-dewaxed (petroleum) / Refined paraffinic mineral oil	(CAS-No.) 64742-62-7	≤ 71	Not classified.
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts	Phosphorodithioic acid, O,O-di(C1-14)-alkyl esters zinc salts / Zinc, dithiophosphate di-C1-14-alkyl esters / Phosphorodithioic acid, O,O-di-C(1-14)-alkyl esters, zinc salts / Zinc alkyl dithiophosphate / Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts (2:1) / Phosphorodithioic acid O,O-dialkyl(C1-14) esters zinc salts / Zinc salt of O,O-dialkyl(C1-14) phosphorodithioate	(CAS-No.) 68649-42-3	0.25 – 0.55	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
2,6-Di-tert-butylphenol	2,6-Bis(tert-butyl)phenol / Phenol, 2,6-bis(1,1-dimethylethyl)- / Phenol, 2,6-di-tert-butyl- / 2,6-Bis(1,1-dimethylethyl)phenol	(CAS-No.) 128-39-2	0.08 – 0.2	Skin Irrit. 2, H315 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
Lubricating oils, petroleum, C20-50, hydrotreated neutral oil-based, high-viscosity	Oils, lubricating (petroleum) C20-50, hydrotreated neutral oil-based, high viscosity / Lubricating oils, petroleum, C20-50, hydrogenated neutral oil based, high viscosity / Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based, high-viscosity / Lubricating oil (petroleum), (C20-50), hydrotreated neutral oil-based, high-viscosity / Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based, high viscosity / Lubricating oils, petroleum, C20-50, hydrotreated neutral oil based, high viscosity / Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based high-viscosity / Lubricating oils, petroleum, C20-50, hydrotreated neutral oil-based, high-viscosity (A complex combination of hydrocarbons obtained by treating light vacuum gas oil, heavy vacuum gas oil, and solvent deasphalted residual oil with hydrogen in the presence of a catalyst in a two stage process with dewaxing being carried out between the two stages. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C20-50 and produces a finished oil having a viscosity of approximately 112cSt at 40°C. It contains a relatively large proportion of saturated hydrocarbons.)	(CAS-No.) 72623-85-9	0.08 – 0.2	Carc. 1B, H350

* The actual concentration of ingredient(s) is withheld as a trade secret in accordance with the Hazardous Products Regulations (HPR) SOR/2022-272 and 29 CFR 1910.1200. Percentages are listed in weight by weight percentage (w/w%) for liquid and solid ingredients. Gas ingredients are listed in volume by volume percentage (v/v%). Full text of H-statements: see section 16. *This product has a variable composition based on the composition of the individual feedstocks. The listed percentages represent expected variations in composition, but are not absolute.*

SECTION 4: FIRST AID MEASURES

4.1. Description of First-aid Measures

General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

Inhalation: When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.

Skin Contact: Remove contaminated clothing. Wash immediately with plenty of soap and water. Drench affected area with water for at least 5 minutes. If exposed or concerned: Get medical advice/attention.

Eye Contact: Rinse cautiously with water for at least 5 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if irritation develops or persists.

Ingestion: Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

4.2. Most Important Symptoms and Effects Both Acute and Delayed

General: May cause cancer.

Inhalation: Prolonged exposure may cause irritation.

Skin Contact: Prolonged exposure may cause skin irritation.

Eye Contact: May cause slight irritation to eyes.

Ingestion: Ingestion may cause adverse effects.

Chronic Symptoms: May cause cancer.

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing Media

Suitable Extinguishing Media: Water spray, fog, carbon dioxide (CO_2), alcohol-resistant foam, or dry chemical.

Unsuitable Extinguishing Media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard: Not considered flammable but may burn at high temperatures.

Explosion Hazard: Product is not explosive.

Reactivity: Hazardous reactions will not occur under normal conditions.

5.3. Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

Firefighting Instructions: Use water spray or fog for cooling exposed containers.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

Hazardous Combustion Products: Carbon oxides (CO, CO_2). Sulfur oxides. Metal oxides.

5.4. Reference to Other Sections

Refer to Section 9 for flammability properties.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Spilled product presents a slipping hazard. Do not get in eyes, on skin, or on clothing. Do not breathe vapor, mist or spray.

6.1.1. For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protective equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

6.1.2. For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit. Ventilate area.

6.2. Environmental Precautions

Prevent entry to sewers and public waters.

6.3. Methods and Materials for Containment and Cleaning Up

For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.
Methods for Cleaning Up: Absorb and/or contain spill with inert material. Clean up spills immediately and dispose of waste safely. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

6.4. Reference to Other Sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling

Additional Hazards When Processed: Spilled material may present a slipping hazard.
Precautions for Safe Handling: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Avoid prolonged contact with eyes, skin and clothing. Do not handle until all safety precautions have been read and understood. Do not breathe mist/vapors/spray.
Handling Temperature: No temperature range given.
Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures.

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations.
Storage Conditions: Keep container closed when not in use. Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials. Store locked up/in a secure area.
Incompatible Materials: Strong acids, strong bases, strong oxidizers.
Storage Temperature: No temperature range given.

7.3. Specific End Use(s)

For lubricating industrial gears. If this product is used in combination with other products, refer to the Safety Data Sheets for those products.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), OSHA (PEL), or Canadian provincial governments.

8.2. Exposure Controls

Appropriate Engineering Controls: Suitable eye/body wash equipment should be available in the vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.
Personal Protective Equipment: Protective goggles or glasses. Gloves. Protective clothing. Protective goggles. Insufficient ventilation: wear respiratory protection.



Materials for Protective Clothing: Chemically resistant materials and fabrics.
Hand Protection: Wear protective gloves.
Eye and Face Protection: Chemical goggles or safety glasses. Chemical safety goggles.
Skin and Body Protection: Wear suitable protective clothing.
Respiratory Protection: If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.
Thermal Hazard Protection: If material is hot, wear thermally resistant protective gloves.
Environmental Exposure Controls: Avoid unnecessary release into the environment.
Other Information: When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

Physical State	:	Liquid
Color	:	Amber, blue, red, or green liquid
Odor	:	Petroleum

Odor Threshold	:	No data available
pH	:	No data available
Evaporation Rate	:	No data available
Melting Point	:	No data available
Freezing Point	:	No data available
Boiling Point	:	246 °C (474.8 °F)
Flash Point	:	165 °C (329 °F)
Auto-ignition Temperature	:	No data available
Decomposition Temperature	:	No data available
Flammability (solid, gas)	:	Not applicable
Lower Flammable Limit	:	No data available
Upper Flammable Limit	:	No data available
Vapor Pressure	:	< 0.1 mm Hg [20 °C (68 °F)]
Relative Vapor Density at 20°C	:	No data available
Relative Density	:	0.89 (Water = 1)
Density	:	890 g/l (7.3 lb/US gal)
Specific Gravity	:	No data available
Solubility	:	Water: Insoluble
Partition Coefficient: N-Octanol/Water	:	No data available
Viscosity, Kinematic	:	> 20.5 mm^2/s at 40 °C (104 °F)
Particle characteristics	:	No data available
VOC content	:	Negligible

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity:

Hazardous reactions will not occur under normal conditions.

10.2. Chemical Stability:

Stable under recommended handling and storage conditions (see section 7).

10.3. Possibility of Hazardous Reactions, Including those Associated with Foreseeable Emergencies:

Hazardous polymerization will not occur.

10.4. Conditions to Avoid:

Direct sunlight, extremely high or low temperatures, and incompatible materials.

10.5. Incompatible Materials:

Strong acids, strong bases, strong oxidizers.

10.6. Hazardous Decomposition Products:

Thermal decomposition may produce: Carbon oxides (CO, CO_2). Sulfur oxides. Metal oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on Toxicological Effects - Product

Likely routes of exposure: Dermal, Eye Contact, Inhalation, Oral.

Acute Toxicity (Oral): Not classified.

Acute Toxicity (Dermal): Not classified.

Acute Toxicity (Inhalation): Not classified.

LD50 and LC50 Data:

No additional information available

Skin Corrosion/Irritation: Not classified.

Eye Damage/Irritation: Not classified.

Respiratory or Skin Sensitization: Not classified.

Germ Cell Mutagenicity: Not classified.

Carcinogenicity: May cause cancer.

Specific Target Organ Toxicity (Repeated Exposure): Not classified.

Reproductive Toxicity: Not classified.

Specific Target Organ Toxicity (Single Exposure): Not classified.

Aspiration Hazard: Not classified.

Symptoms/Injuries After Inhalation: Prolonged exposure may cause irritation.

Symptoms/Injuries After Skin Contact: Prolonged exposure may cause skin irritation.

Symptoms/Injuries After Eye Contact: May cause slight irritation to eyes.

Symptoms/Injuries After Ingestion: Ingestion may cause adverse effects.

Chronic Symptoms: May cause cancer.

11.2. Information on Toxicological Effects - Ingredient(s)

LD50 and LC50 Data:

Distillates, petroleum, hydrotreated heavy paraffinic (64742-54-7)	
LD50 Oral Rat	> 15 g/kg (Source: EPA_HPV)
LD50 Dermal Rabbit	> 5000 mg/kg (Source: EPA_HPV)
Residual oils, petroleum, solvent-dewaxed (64742-62-7)	
LD50 Oral Rat	> 5000 mg/kg (Source: IUCLID)
LD50 Dermal Rabbit	> 2000 mg/kg (Source: NLM_CIP)
2,6-Di-tert-butylphenol (128-39-2)	
LD50 Oral Rat	> 5000 mg/kg (Source: ECHA)
LD50 Dermal Rabbit	> 10 g/kg (Source: NLM_CIP)
Lubricating oils, petroleum, C20-50, hydrotreated neutral oil-based, high-viscosity (72623-85-9)	
LD50 Oral Rat	> 5000 mg/kg (Source: IUCLID)
LD50 Dermal Rabbit	> 2000 mg/kg (Source: IUCLID)

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecology - General: Not classified.

Distillates, petroleum, hydrotreated heavy paraffinic (64742-54-7)	
LC50 Fish 1	> 5000 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss Source: IUCLID)
EC50 - Crustacea [1]	> 1000 mg/l (Exposure time: 48 h - Species: Daphnia magna)
Residual oils, petroleum, solvent-dewaxed (64742-62-7)	
LC50 Fish 1	> 5000 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss Source: IUCLID)
EC50 - Crustacea [1]	> 1000 mg/l (Exposure time: 48 h - Species: Daphnia magna)
2,6-Di-tert-butylphenol (128-39-2)	
EC50 - Crustacea [1]	0.45 mg/l (Exposure time: 48 h - Species: Daphnia magna)
NOEC Chronic Crustacea	0.035 mg/l
Lubricating oils, petroleum, C20-50, hydrotreated neutral oil-based, high-viscosity (72623-85-9)	
LC50 Fish 1	> 5000 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss Source: IUCLID)
EC50 - Crustacea [1]	> 1000 mg/l (Exposure time: 48 h - Species: Daphnia magna)
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts (68649-42-3)	
LC50 Fish 1	1 – 5 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static] Source: IUCLID)
EC50 - Crustacea [1]	1 – 1.5 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 Fish 2	10 – 35 mg/l (Exposure time: 96 h - Species: Pimephales promelas [semi-static] Source: IUCLID)

12.2. Persistence and Degradability

WARCO AW HYDRAULIC OILS ISO 22, 32, 46, 68, 100, 150, 220	
Persistence and Degradability	Not established.

12.3. Bioaccumulative Potential

WARCO AW HYDRAULIC OILS ISO 22, 32, 46, 68, 100, 150, 220	
Bioaccumulative Potential	Not established.
2,6-Di-tert-butylphenol (128-39-2)	
Partition coefficient n-octanol/water (Log Pow)	4.5 (at 24 °C)

12.4. Mobility in Soil

WARCO AW HYDRAULIC OILS ISO 22, 32, 46, 68, 100, 150, 220	
Ecology - Soil	Product partially leaches if exposed to water.

12.5. Other Adverse Effects

Other Adverse Effects: Hydrocarbon film may develop and spread on the surface of water. Some low weight components will become volatile, while others will adsorb to sediment particles. Both of these scenarios represent hazards to the aquatic ecosystem.

Other Information: Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste Treatment Methods: Incineration is the preferred method for disposal of waste product.

Sewage Disposal Recommendations: Do not dispose of waste into sewer. Do not empty into drains.

Waste Disposal Recommendations: Dispose of contents/container in accordance with local, regional, national, territorial, provincial, and international regulations.

Additional Information: Recycle the material as far as possible.

Ecology - Waste Materials: Avoid unnecessary release into the environment. Avoid release to the environment.

SECTION 14: TRANSPORT INFORMATION

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

14.1. In Accordance with DOT

Not regulated for transport

14.2. In Accordance with IMDG

Not regulated for transport

14.3. In Accordance with IATA

Not regulated for transport

14.4. In Accordance with TDG

Not regulated for transport

SECTION 15: REGULATORY INFORMATION

15.1. US Federal Regulations

WARCO AW HYDRAULIC OILS ISO 22, 32, 46, 68, 100, 150, 220	
SARA Section 311/312 Hazard Classes	Health hazard - Carcinogenicity

Distillates, petroleum, hydrotreated heavy paraffinic (64742-54-7)
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

Residual oils, petroleum, solvent-dewaxed (64742-62-7)
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

2,6-Di-tert-butylphenol (128-39-2)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
EPA TSCA Regulatory Flag	TP - TP - indicates a substance that is the subject of a proposed Section 4 test rule under TSCA.

Lubricating oils, petroleum, C20-50, hydrotreated neutral oil-based, high-viscosity (72623-85-9)
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts (68649-42-3)
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

15.2. US State Regulations

Neither this product nor its chemical components appear on any US state lists, or its chemical components are not required to be disclosed.

15.3. Canadian Regulations

Distillates, petroleum, hydrotreated heavy paraffinic (64742-54-7)
Listed on the Canadian DSL (Domestic Substances List)

Residual oils, petroleum, solvent-dewaxed (64742-62-7)
Listed on the Canadian DSL (Domestic Substances List)

2,6-Di-tert-butylphenol (128-39-2)
Listed on the Canadian DSL (Domestic Substances List)

Lubricating oils, petroleum, C20-50, hydrotreated neutral oil-based, high-viscosity (72623-85-9)
Listed on the Canadian DSL (Domestic Substances List)

Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts (68649-42-3)
Listed on the Canadian DSL (Domestic Substances List)

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Date of Preparation or Latest Revision : 12/23/2025

Indication of Changes : Updating of document to new North American standards. Changes to formulation. Update to all sections based on formulation changes.

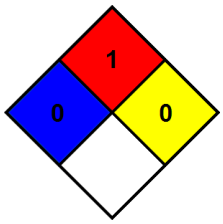
Other Information : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200 and Canada's Hazardous Products Regulations (HPR) SOR/2022-272.

GHS Full Text Phrases:	
H315	Causes skin irritation
H318	Causes serious eye damage
H350	May cause cancer.
H400	Very toxic to aquatic life
H411	Toxic to aquatic life with long lasting effects

NFPA Health Hazard : 0 - Materials that, under emergency conditions, would offer no hazard beyond that of ordinary combustible materials.

NFPA Fire Hazard : 1 - Materials that must be preheated before ignition can occur.

NFPA Reactivity Hazard : 0 - Material that in themselves are normally stable, even under fire conditions.



Glossary of Data Source Abbreviations

ATSDR: Agency for Toxic Substances and Disease Registry (U.S. Department of Health and Human Services)
AU_WES: Australia WES
CHEMVIEW: ChemView (U.S. Environmental Protection Agency)
EC_RAR: European Commission Renewal Assessment Report
EC_SCOEL: European Commission Scientific Committee on Occupational Exposure Limits
ECETOC: European Centre for Ecotoxicology and Toxicology of Chemicals Reports
ECHA_API: European Chemicals Agency API
ECHA_RAC: ECHA Committee for Risk Assessment
EFSA: European Food Safety Authority
EPA: U.S. Environmental Protection Agency
EPA_AEGL: Acute Exposure Guideline Levels (U.S. Environmental Protection Agency)
EPA_FIFRA: Federal Insecticide, Fungicide, and Rodenticide Act Reregistration Eligibility Decision (U.S. Environmental Protection Agency)
EPA_HPV: High Production Volume Chemicals (U.S. Environmental Protection Agency)
EPA_TRED: Risk Assessment for Tolerance Reassessment Eligibility Decision (U.S. Environmental Protection Agency)
EU_CLH: European Union Harmonised Classification and Labelling Proposal
EU_RAR: European Union Risk Assessment Report
FOOD_JOURN: Food Research Journal (1956)
IARC: The International Agency for Research on Cancer
IDLH: National Institute for Occupational Health and Safety Immediately Dangerous to Life or Health Value Profiles
IUCLID: International Uniform Chemical Information Database
JAPAN_GHS: Japan GHS Basis for Classification Data
JP_J-CHECK: Japan J-Check
KR_NIER: South Korea National Institute of Environmental Research Evaluations
NICNAS: Australia National Industrial Chemicals Notification and Assessment Scheme
NIOSH: National Institute for Occupational Health and Safety (U.S. Department of Health and Human Services)
NLM_CIP: National Library of Medicine ChemID plus database
NLM_HSDB: National Library of Medicine Hazardous Substance Data Bank
NLM_PUBMED: National Library of Medicine PubMed database
NTP: National Toxicology Program
NZ_CCID: New Zealand Chemical Classification and Information Database
OECD_EHSP: Environment, Health, and Safety Publication (Organisation for Economic Co-operation and Development)
OECD_SIDS: Screening Information Data Sets (Organisation for Economic Co-operation and Development)
WHO: World Health Organization

The information contained herein is correct to the best of our knowledge, information, and belief and is designed only as guidance for the handling, use, processing, storage, transportation, disposal, and release of the product. User assumes all risks incident to use of this product and shall determine the quality and suitability of the product for its use. Supplier offers no warranty, express or implied, whatsoever, including warranties of merchantability or fitness for a particular purpose or otherwise, and specifically disclaims any and all liability for incidental, consequential, or other damages arising out the use or misuse of the product. The information provided relates only to the specific material provided and may not be valid if used in combination with any other materials or process, unless specified herein.

NA GHS SDS 2024 (Can, US)