



SAFETY DATA SHEET

SECTION 1.0	PRODUCT AND COMPANY IDENTIFICATION
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Product Identifier

UNIAROM® TX 150 IF

Other means of identificationSolvent naphtha (petroleum), heavy aromatic, C₁₀ Aromatic, A150

A complex combination of hydrocarbons obtained from distillation of aromatic streams. It consists predominantly of aromatic hydrocarbons in the range of C₉ through C₁₆ and boiling in the range of approximately 165°C to 290 °C.

CAS number

64742-94-5

Recommended use (identified)

Solvent

Manufacturer/Importer/Supplier/Distributor Information

UNISOURCE-ENERGY, LLC.

40 Shuman Blvd, Suite 290

Naperville, IL 60563

E-mail

orders@unisource-energy.com

Telephone number

Phone: 630-470-6030 Fax: 630-470-6031

Emergency telephone number

UNISOURCE-ENERGY, LLC

1-800-444-5510

CHEMTREC

1-800-424-9300

SECTION 2.0	HAZARD(S) IDENTIFICATION
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Classification (GHS—US)

Flammable liquids Category 4

Carcinogenicity Category 2

Specific target organ toxicity (single exposure) Category 3 Narcotic effects

Specific target organ toxicity (single exposure) Category 3 Respiratory irritation

Specific target organ toxicity (single exposure) Category 1

Specific target organ toxicity (single exposure) Category 2

Specific target organ toxicity (repeated exposure) Category 1



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Specific target organ toxicity (repeated exposure) Category 2

Aspiration hazard Category 1

GHS label elements



Signal word

Danger

Hazard Statements

Combustible liquid

May be fatal if swallowed and enters airways

May cause respiratory irritation

May cause drowsiness or dizziness

Suspected of causing cancer

Causes damage to organs (blood)

May cause damage to organs (eyes, central nervous system)

Causes damage to organs (eyes, respiratory system) through prolonged or repeated exposure

May cause damage to organs (lungs, nose) through prolonged or repeated exposure

Precautionary Statement

Obtain special instructions before use.

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

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

Do not breathe vapors, spray, mist, gas

Wash hands, forearms and face thoroughly after handling.

Do not eat, drink or smoke when using this product.

Use only outdoors or in a well-ventilated area

Wear eye protection, flame retardant protective clothing, impermeable protective gloves.

Specific treatment (see Section 4 of SDS or information on this label).

If swallowed: Immediately call doctor, poison center. Do NOT induce vomiting

If inhaled: Remove person to fresh air and keep comfortable for breathing.

If exposed or concerned: Get medical advice/attention.

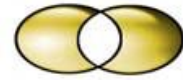
Get medical advice/attention if you feel unwell.

In case of fire: Use carbon dioxide (CO₂), dry chemical, foam, water spray to extinguish

Store in a well-ventilated place. Keep container tightly closed. Keep Cool.

Store locked up.

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



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Hazard(s) not otherwise classified (HNOC)

Product can accumulate electrostatic charges that may cause fire by electrical discharges.

Unknown acute toxicity (GHS US)

Not applicable

Additional Information

Based on conditions common to industrial workplace use of this product

May cause mild eye irritation

May cause mild skin irritation

SECTION 3.0

COMPOSITION/INFORMATION ON INGREDIENTS

CAS number/other identifiers

Ingredient Name	%	CAS number
Aromatic hydrocarbons C ₁₀ not including naphthalene	≥80	--
Naphthalene	≤10	91-20-3
Aromatic hydrocarbons C ₈ —C ₉	≤10	--
Aromatic hydrocarbons C ₁₁ —C ₁₄	≤10	--
1,2,4 trimethylbenzene	≤5	95-63-6
1,2,3 trimethylbenzene	≤5	526-73-8

Note: Where concentrations in this product are displayed as ranges, it is due to batch to batch variability.

SECTION 4.0

FIRST AID MEASURES

Description of necessary 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).

Eye contact

Rinse immediately with plenty of water. Obtain medical attention, if irritation persists.

Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If breathing is difficult give oxygen. If breathing stops, give artificial respiration.

Skin contact

Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.



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Ingestion

Rinse mouth. Do NOT induce vomiting. Immediately call a poison center or doctor/physician.

Most important symptoms, acute and delayed

Symptoms/injuries after inhalation

May cause respiratory irritation

Symptoms/injuries after ingestion

May be fatal if swallowed and enters airways

Chronic symptoms

Suspected of causing cancer

Indication of immediate medical attention and special treatment needed

Immediate medical attention, special treatment

Treat symptomatically

SECTION 5.0

FIRE-FIGHTING MEASURES

Suitable extinguishing media

Foam. Dry Powder, Carbon dioxide, Water spray, Sand.

Unsuitable extinguishing media

Do not use heavy water spray

Specific hazards arising from the chemical

Fire hazard

Combustible liquid

Explosion hazard

May form flammable/explosive vapor-air mixture

Firefighting instructions

Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment

Special protective equipment and precautions for firefighters

Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6.0

ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Emergency procedures for non-emergency personnel

Evacuate unnecessary personnel.



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Emergency procedures for emergency personnel

Ventilate area

Methods and materials for containment and cleaning up

For containment

Dike for recovery or absorb with appropriate material. Do not contaminate ground and surface water

Methods of cleaning up

Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials

Reference to other sections

See section 8. Exposure controls/personal protection.

SECTION 7.0

HANDLING AND STORAGE

Precautions for safe handling

Additional hazards when processed

Handle empty containers with care because residual vapors are flammable. Keep away from heat, sparks, open flames, hot surfaces. - No smoking

Precautions for safe handling

Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. No bare lights. No smoking. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing vapors, mist. Use only outdoors or in a well-ventilated area

Conditions for safe storage, including any incompatibilities

Technical measures

Proper grounding procedures to avoid static electricity should be followed. All efforts should be made to prevent any leaks or spills. Storage tanks should be engineered to prevent contact with water resources, as this material could contaminate the water resources. Surface spills can reach groundwater through porous soil or cracked surfaces. The storage tanks should be monitored regularly for leaks. Where spills or leaks are possible, a comprehensive response plan should be developed and implemented

Storage conditions

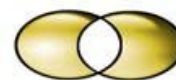
Keep only in the original container in a cool, well ventilated place away from: Direct sunlight, flames, heat sources, sparks. Keep in fireproof place. Keep container tightly closed.

Incompatible products

Strong bases. Strong acids

Incompatible materials

Sources of ignition. Direct sunlight. Heat sources.



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SECTION 8.0	EXPOSURE CONTROLS/PERSONAL PROTECTION
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Occupational Exposure Limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

Component	Exposure Limits	
Naphthalene (91-20-3)	ACGIH TWA	10 ppm
	ACGIH STEL	15 ppm
	OSHA PEL (TWA)	50 mg/m ³
	OSHA PEL (TWA)	10 ppm
1,2,4 trimethylbenzene (95-63-6)	ACGIH TWA	123 mg/m ³ *
	ACGIH TWA	25 ppm*
1,2,3 trimethylbenzene (526-73-8)	ACGIH TWA	123 mg/m ³ *
	ACGIH TWA	25 ppm*

*Trimethylbenzene, all isomers

Exposure Controls

Appropriate engineering controls

Ensure adequate ventilation

Personal protective equipment

Avoid all unnecessary exposure

Respiratory protection

An approved organic vapor respirator/supplied air or self-contained breathing apparatus must be used when vapor concentration exceeds applicable exposure limits

Hand protection

Impermeable protective gloves. Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer. Gloves should be discarded and replaced. If there is any indication of degradation or chemical breakthrough. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection

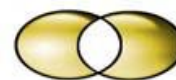
Chemical goggles or safety glasses.

Skin and body protection

Wear fire/flame resistant/retardant clothing.

Other information

Do not eat, drink or smoke during use



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SECTION 9.0	PHYSICAL AND CHEMICAL PROPERTIES
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Physical state	Liquid
Appearance	Clear, colorless, volatile liquid
Color	Colorless
Odor	Characteristic
Odor threshold	No data available
pH	Not applicable
Relative evaporation rate (butyl acetate = 1)	No data available
Melting point/freezing point	No data available
Initial boiling point and boiling range	180°C (180 - 210°C)
Flash point	61°C Closed cup
Flammability (solid, gas)	No data available
Lower and upper explosive (flammable) limits	No data available
Vapor pressure	< 1mm Hg @ 20°C - Reid Vapor Pressure
Relative Vapor density @ 20°C	4.5 (Air=1)
Relative density	0.9
Solubility in water	Negligible
Log K_{ow}	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity, kinematic	< 20 cSt. at 40°C
Viscosity, dynamic	No data available
VOC content	100%

SECTION 10.0	STABILITY AND REACTIVITY
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Reactivity

Combustible liquid

Chemical stability

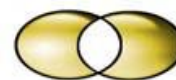
Stable at ambient temperature and under normal conditions of use

Possibility of hazardous reactions

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

Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Open flame. Overheating. Heat. Sparks



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Incompatible materials

Strong oxidizing agents

Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products formed under fire conditions: carbon monoxide, carbon dioxide, toxic fumes

SECTION 11.0

TOXICOLOGICAL INFORMATION

Likely routes of exposure

Inhalation. Ingestion. Skin and eye contact

Acute toxicity

Product/Ingredient	Test	Results
UNIAROM® TX 150 IF 64742-94-5	LD ₅₀ Oral Rat	>2000 mg/kg
	LD ₅₀ Dermal Rat	>5000 mg/kg
	LC ₅₀ Inhalation Rat	>5 mg/l/4hr.
Naphthalene 91-20-3	LD ₅₀ Oral Rat	490 mg/kg
	LD ₅₀ Dermal Rabbit	>20 g/kg
	LC ₅₀ Inhalation Rat	>340 mg/kg – 1 hour
Aromatic Hydrocarbons (C ₈ -C ₉)	LC ₅₀ Inhalation Rat	18 mg/l/4 hours (based 1,2,4 trimethylbenzene)
1,2,4 trimethylbenzene 95-63-6	LD ₅₀ Oral Rat	5000 mg/kg
	LD ₅₀ Dermal Rabbit	>3160 mg/kg
	LC ₅₀ Inhalation Rat	18 mg/l/4hr.
1,2,3 trimethylbenzene (526-73-8)	LD ₅₀ Oral Rat	5000 mg/kg*
	LD ₅₀ Dermal Rabbit	>3160 mg/kg*
	LC ₅₀ Inhalation Rat	10.2 mg/l/4hr.**

*Based on 1,2,4 trimethylbenzene

**Based on a mixture of trimethylbenzene

Skin Irritation/Corrosion

Not classified

Serious eye damage/irritation

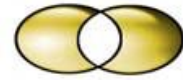
Not classified

Respiratory or skin sensitization

Not classified

Germ cell mutagenicity

Not classified



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Carcinogenicity

Suspected of causing cancer

Ingredient	Organization	Determination
Naphthalene 91-20-3	IARC	2B – Possible carcinogenic to humans
	NTP	2 – Reasonably anticipated to be a human carcinogen

Reproductive toxicity

Not classified

Specific target organ toxicity (single exposure)

May cause drowsiness or dizziness. May cause respiratory irritation. Cause damage to organs (blood). May cause damage to organs (eyes, Central nervous system).

Specific target organ toxicity (repeated exposure)

Causes damage to organs (eyes, respiratory system) through prolonged or repeated exposure. May cause damage to organs (lung, nose) through prolonged or repeated exposure.

Product/Ingredient	Test	Results
UNIAROM® TX 150 IF (64742-94-5)	NOAEL Oral Rat 90 days	300 mg/kg body weight/day

Aspiration hazard

May be fatal if swallowed and enters airways

Potential adverse human health effects and symptoms

Irritation of the respiratory tract. Drowsiness. Dizziness

SECTION 12.0

ECOLOGICAL INFORMATION

Ecotoxicity

Constituents of this type of aromatic solvent are expected to partition between air, water, and soil.

Persistence and degradability UNIAROM® TX 150 IF (64742-94-5)

Constituents of this type of aromatic solvent are expected to biodegrade

Bioaccumulative potential UNIAROM® TX 150 IF (64742-94-5)

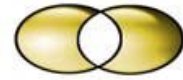
Not established

Mobility in soil

No additional information available

Other adverse effects

Avoid release to the environment



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SECTION 13.0

DISPOSAL CONSIDERATIONS

Waste Disposal Recommendations

Dispose in a safe manner in accordance with local/national regulations. Dispose of contents and container in accordance with all local, regional, national and international regulations.

Additional information

Handle empty containers with care because residual vapors are flammable.

Ecology - waste materials

Avoid release to the environment. Hazardous waste due to toxicity.

SECTION 14.0

TRANSPORT INFORMATION

US DOT for Bulk Shipments (Non-bulk Shipments May Differ)

Transport document description

UN1268, Petroleum distillates, n.o.s. Combustible Liquid, PGIII

UN or NA Number

UN 1268

Proper Shipping Name

Petroleum distillates, n.o.s.

Primary Hazard Class

Combustible Liquid see 49 CFR 171.150(f)

Packing Group

PGIII

Hazard Labels



Emergency Response Guide (ERG) Number

128

In accordance with the definition in 49 CFR § 171.8, a hazardous substance does not include petroleum, including crude oil or any fraction thereof which is not otherwise specifically listed or designated as such in Appendix A to 49 CFR § 172.101. Therefore, this product does not require a RQ designation

IATA (Air transport)

Not regulated by IATA



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IMDG (Transport by sea)

Transport in bulk according to Annex II of MARPOL, 73/78 and the IBC code

Product name: Alkyl (C3 - C4) benzenes (UNIAROM® TX 150 IF)

Pollution category: Y

Ship type: 2

Cargo name listed in 46 CFR 30.25, Table 30.25-1

Alkyl (C3 - C4) benzenes

Cargo name listed in 46 CFR 153, Table 1

Alkyl (C3 - C4) benzenes

SECTION 15.0

REGULATORY INFORMATION

US Federal regulations

EPA TSCA Status

This product is a substance under TSCA (CAS No. 64742-94-5; Solvent naphtha (petroleum), heavy aromatic.).

Sara Section 313 Supplier Notification

This product contains the following toxic chemical or chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR 372:

CAS number	Chemical name	Concentration
91-20-3	Naphthalene	≤ 10%
95-63-6	1,2,4 trimethylbenzene	≤ 10%

This information must be included in all Safety Data Sheets that are copied and distributed for this product. For additional information see 40 CFR 372.45 Notification about Toxic Chemicals

Sara 311/312 Hazard Classes

Acute health hazard

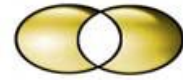
Fire hazard

Chronic health hazard

US State Regulations

California Proposition 65 – This product contains or may contain trace quantities of a substance known to the state of California to cause cancer and/or reproductive toxicity, not limited to any that may be listed below

Naphthalene (91-20-3) Proposition 65	
Carcinogens List	Yes
Developmental Toxicity	No
Reproductive Toxicity – Female	No



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Reproductive Toxicity – Male	No
No significance risk level (NSRL)	5.8 µg/day

International regulations

Canada

WHMIS Classification

Class B Division 3 - Combustible Liquid

Class D Division 2 Subdivision A - Very toxic material causing other toxic effects

National Inventories -- Listed

Australian Inventory of Chemical Substances (AICS)

Canadian Domestic Substances List (DSL)

China Inventory of Existing Chemical Substances (ECSC)

European Inventory of Existing Commercial Chemical Substances (EINECS)

Korean Existing Chemicals List (EGL)

New Zealand Inventory of Chemicals (NZIoC)

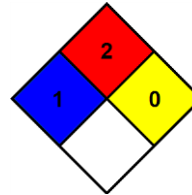
Philippines Inventory of Chemicals and Chemical Substances (PICCS)

SECTION 16.0

OTHER INFORMATION

NFPA rating

NFPA health hazard	1
NFPA fire hazard	2
NFPA reactivity	0



HMIS III Rating

Health	1
Flammability	2
Physical Hazard	0
Personal Protection	See Section 8 of SDS



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US OSHA LABEL as specified under 29 CFR §1910.1200 (f)

UNIAROM® TX 150 IF

UniSource Energy, Inc.
40 Shuman Blvd, Suite 290
Naperville, IL 60563
Phone: 630-470-6030



Danger

Combustible liquid

May be fatal if swallowed and enters airways

May cause respiratory irritation

May cause drowsiness or dizziness

Suspected of causing cancer

Causes damage to organs (blood)

May cause damage to organs (eyes, central nervous system)

Causes damage to organs (eyes, respiratory system) through prolonged or repeated exposure

May cause damage to organs (lungs, nose) through prolonged or repeated exposure

Obtain special instructions before use.

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

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

Do not breathe vapors, spray, mist, gas.

Wash hands, forearms and face thoroughly after handling.

Do not eat, drink or smoke when using this product.

Use only outdoors or in a well-ventilated area.

Wear eye protection, flame retardant protective clothing, and impermeable protective gloves.

Specific treatment (see Section 4 of SDS or information on this label).

If swallowed: Immediately call doctor, poison center.

Do NOT induce vomiting.

If inhaled: Remove person to fresh air and keep comfortable for breathing.

If exposed or concerned: Get medical advice/attention.

Get medical advice/attention if you feel unwell.

In case of fire: Use carbon dioxide (CO₂), dry chemical, foam, Water spray to extinguish.

Store in a well-ventilated place. Keep container tightly closed. Keep Cool.

Store locked up.

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

Supplemental Information: Other hazards not contributing to the classification

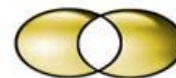
Product can accumulate electrostatic charges that may cause fire by electrical discharges.



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Abbreviations

ACGIH = American Conference of Governmental Industrial Hygienists; ADR = European Road Transport; AICS = Australia Inventory of Chemical Substances; ASTM = American Society of Testing and Materials; ATE = Acute Toxicity Estimation; AU = Australia; Autoignition Temperature = The minimum temperature required to initiate combustion in air with no other source of ignition; BCF = Bioconcentration Factor; BEI = - Biological Exposure Indices, represent the levels of determinants which are most likely to be observed in specimens collected from a healthy worker who has been exposed to chemicals to the same extent as a worker with inhalation exposure to the TLV, BEL = Biological exposure limits; BOD = Biochemical Oxygen Demand; BTEX = Benzene, Toluene, Ethylbenzene, Xylenes; bw = body weight; bw/day = body weight/day; C = Celsius, CA = Canada, CAS = Chemical Abstracts Service; CEFIC = European Chemical Industry Council; CEILING = Ceiling Limit (15 minutes); CERCLA = The Comprehensive Environmental Response, Compensation, and Liability Act; CLP = Classification Packaging and Labelling Regulation (Regulation (EU) No. 1272/2008); COC = Cleveland Open Cup; CN = China; CPR = Controlled Products Regulations; CWA = Clean Water Act; DEA = Drug Enforcement Administration; DFG = Deutsche Forschungsgemeinschaft; DIN = Deutsches Institut für Normung; DMEL = Derived Minimal Effect Level; DNEL = Derived No Effect Level; DOT = Department of Transportation; DSL = Domestic Substances List (Canada); dw = dry weight; EC = European Commission; EC50 = Effective Concentration fifty; ECC = European Economic Community; ECETOC = European Center on Ecotoxicology and Toxicology Of Chemicals; ECHA = European Chemicals Agency; EINECS = European Inventory of Existing Commercial Chemical Substances; ELINCS = European List of Notified Chemical Substances; EL50 = Effective Loading fifty; ENCS = Japan Existing and New Chemical Substances; EPA = Environmental Protection Agency; EU = European Union; EUH statement = CLP –specific Hazard statement; EWC = European Waste Code; F = Fahrenheit; Flash Point = Minimum temperature at which a liquid gives off sufficient vapors to form an ignitable mixture with air; fw = fresh water; GHS = Globally Harmonized System of Classification and Labelling of Chemicals; GLP = Good Laboratory Practice; HAPs = Hazardous Air Pollutants; IARC = International Agency for Research on Cancer; IATA = International Air Transport Association; IBC = Intermediate Bulk Container; IC₅₀ = Inhibitory Concentration fifty; ICAO = International Civil Aviation Organization; IDL = Ingredient Disclosure List; IDLH = Immediately Dangerous to Life and Health; IL₅₀ = Inhibitory Level fifty; IMDG = International Maritime Dangerous Goods; INSH = National Institute for Health and Safety at Work; INV = Chinese Chemicals Inventory; IOPC = International Oil Pollution Compensation; IP346 = Institute of Petroleum test method N° 346 for the determination of polycyclic aromatics DMSO-extractables; JP = Japan; Kow = Octanol/water partition; KECI = Korea Existing Chemicals Inventory; LC₅₀ = Lethal Concentration (gases) which kills 50% of the exposed animals, LD₅₀ = Lethal Dose (solids & liquids) which kills 50% of the exposed animals; LL/EL/IL = Lethal Loading/Effective Loading/Inhibitory loading; LL₅₀ = Lethal Loading fifty; LEL = The lowest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source.; LogPow = logarithm of the octanol/water partition coefficient; LOLI = List of Lists™ - ChemADVISOR's Regulatory Database; LRT = Lower Respiratory Tract, MARPOL 73/78 = International Convention for the Prevention of Pollution from Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution; MAK = Maximum Concentration Value in the Workplace; MEL = Maximum Exposure Limits; mg/m³ = Concentration expressed in weight of substance per volume of air, mg/kg = Quantity of material, by weight, administered to a test subject, based on their body weight in kg, mw = marine water; NDSL = Non-Domestic Substances List (Canada); NE = Not Established; NFPA = National Fire Protection Association; NIOSH = National Institute for Occupational Safety and Health; NJTSR = New Jersey Trade Secret Registry; NOEC/NOEL = No Observed Effect Concentration / No Observed Effect Level; NTP = National Toxicology Program; NZ = New Zealand; OECD = Organization for Economic Co-operation and Development; OE-HPV = Occupational Exposure - High Production Volume; or = occasional release; OSHA = U.S. Occupational Safety and Health Administration; PAH = Polycyclic Aromatic Hydrocarbon; PBT = Persistent, Bioaccumulative and Toxic; PEL = Permissible Exposure Limit (OSHA); PH = Philippines; PICCS = Philippines Inventory of Chemicals and Chemical Substances; ppm = Concentration expressed in parts of material per million parts of air or water, PMCC = Pensky Martin Closed Cup; PNEC = Predicted No Effect Concentration; RCRA = Resource Conservation and Recovery; REACH = Registration Evaluation And Authorization Of Chemicals; RID = European Rail Transport; RRN = REACH Registration Number; RQ = Reportable Quantity; RTECS = Registry of Toxic Effects of Chemical Substances®; RTK = Right To Know; SARA = Superfund Amendments and Reauthorization Act; S* = Skin notation; SKIN_DES = Skin Designation; STEL = Short Term Exposure Limit (15 minutes); SCBA = Self-Contained Breathing Apparatus; SDWA = Safe Drinking Water Act; STOT = Specific Target Organ Toxicity, TDLo = the lowest dose to cause a symptom, TSCA = Toxic Substance Control Act; TCLo = the lowest concentration to cause a symptom; TDLo, LDLo, and LDo, or TC, TCo, LCLo, and LCo, the lowest dose (or concentration) to cause lethal or toxic effects, TDG = Transportation of Dangerous Goods; TLV = Threshold Limit Value (ACGIH); TRA = Targeted Risk Assessment; TSCA = Toxic Substances Control Act; TWA = Time Weighted Average (8 hours); UEL = The highest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source.; UN



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= United Nations; URT + Upper Respiratory Track, US = United States; UVCB = Unknown, of Variable Composition, or of Biological Origin; vPvB = very Persistent and very Bioaccumulative; WHMIS = Worker Hazardous Materials Information System (Canada)

Disclaimer

The information presented herein has been compiled from sources considered to be dependable and is accurate as of the date of preparation of this Safety Data Sheet. However, Seller does not assume any liability whatsoever for the accuracy or completeness of the information contained herein. The information provided above, and the product, are furnished on the condition that the person receiving them shall make their own determination as to the suitability of the product for their particular purpose and on the condition that they assume the risk of their use. In addition, no authorization is given nor implied to practice any patented invention without a license. All materials may present unknown hazards and should be used with caution. In addition, no responsibility can be assumed by the Seller for any damage or injury resulting from abnormal use, from any failure to adhere to recommended practices, or from any hazards inherent in the nature of the material. Seller assumes no responsibility for injury to Buyer or to third persons or any damage to any property. Buyer assumes all such risks.