

SCAVTREAT 1173

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Substance key: 000000399711
Version : 2 - 3 / USA

Revision Date: 10/21/2019
Date of printing :04/15/2021

SECTION 1. IDENTIFICATION

Identification of the company:	Clariant Corporation 4000 Monroe Road Charlotte, NC, 28205 Telephone No.: +1 704-331-7000
Information of the substance/preparation:	Product Stewardship, +1-704-331-7710
Emergency tel. number:	+1 800-424-9300(CHEMTREC)

Trade name: SCAVTREAT 1173
Material number: 239406
Chemical family: Mixture
Primary product use: Hydrogen sulfide scavenger

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with 29 CFR 1910.1200

Acute toxicity (Oral) : Category 4
Acute toxicity (Inhalation) : Category 2
Skin irritation : Category 2
Eye irritation : Category 2A
Skin sensitisation : Category 1
Specific target organ toxicity : Category 1 (Respiratory system)
- repeated exposure

GHS label elements

Hazard pictograms : 

Signal word : Danger

Hazard statements : H302 Harmful if swallowed.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H330 Fatal if inhaled.
H372 Causes damage to organs (Respiratory system) through prolonged or repeated exposure.

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Precautionary statements

:

Prevention:

P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P272 Contaminated work clothing must not be allowed out of the workplace.
P280 Wear protective gloves/ eye protection/ face protection.
P284 Wear respiratory protection.

Response:

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P314 Get medical advice/ attention if you feel unwell.
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P337 + P313 If eye irritation persists: Get medical advice/ attention.
P362 Take off contaminated clothing and wash before reuse.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance

Chemical nature : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
2,2',2''-Hexahydro-1,3,5-triazine-1,3,5-triyl)triethanol	4719-04-4	30 - 50
2-Aminoethanol	141-43-5	1 - 5

Actual concentration is withheld as a trade secret

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SECTION 4. FIRST AID MEASURES

- If inhaled : Move the victim to fresh air.
Give oxygen or artificial respiration if needed.
Get immediate medical advice/ attention.
Never give anything by mouth to an unconscious person.
- In case of skin contact : Wash thoroughly with soap and water for 15 minutes. If skin irritation occurs, seek medical attention.
- In case of eye contact : Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
- If swallowed : Get medical attention immediately.
Do NOT induce vomiting.
- Most important symptoms and effects, both acute and delayed : The possible symptoms known are those derived from the labelling (see section 2).
No additional symptoms are known.
- Notes to physician : Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Cool containers/tanks with water spray.
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during firefighting : In case of fire hazardous decomposition products may be produced such as:
Carbon monoxide
Carbon dioxide (CO₂)
Nitrogen oxides (NO_x)
- Burning produces noxious and toxic fumes.
Containers exposed to intense heat from fires should be cooled with water to prevent vapor pressure buildup which could result in container rupture. Container areas exposed to direct flame contact should be cooled with large quantities of water as needed to prevent weakening of container structure.
- Further information : Wear positive pressure self-contained breathing apparatus and full protective gear. Do not direct a solid stream of water or foam into hot burning pools; this may spread fire, cause frothing, and increase fire intensity. Containers can build up pressure if exposed to heat and/or fire. Vapors may form an

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explosive mixture with air. Vapors may travel to source of ignition and flash back. Use water spray to keep containers cool.

Special protective equipment : Wear an approved positive pressure self-contained breathing apparatus in addition to standard fire fighting gear.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Remove all spark producing devices or ignition sources. Wear proper personnel protective equipment. Using non-sparking tools collect as a liquid for recycling/disposal or absorb onto a suitable absorbant and secure in a suitable container. Collect any contaminated soils or cleaning waste in a suitable container for proper disposal. Absorbent materials such as dry sand, absorbent booms, and vermiculite may be used to keep material from entering drains, sewers, or streams.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling : Store in a cool area away from heat, sparks, flame and other sources of ignition. Keep container tightly sealed. Prevent a possible fire hazard by bonding and grounding or inert gas purge. Wash thoroughly after handling.

Further information on storage conditions : Store in a cool, dry location away from heat, sparks and open flames. Store in original container. Keep container tightly closed.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Components with workplace control parameters**

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
2-Aminoethanol	141-43-5	TWA	3 ppm	ACGIH
		STEL	6 ppm	ACGIH
		TWA	3 ppm 8 mg/m ³	NIOSH REL
		ST	6 ppm 15 mg/m ³	NIOSH REL
		TWA	3 ppm 6 mg/m ³	OSHA Z-1

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		STEL	6 ppm 15 mg/m ³	OSHA P0
		TWA	3 ppm 8 mg/m ³	OSHA P0

Engineering measures : Local ventilation recommended - mechanical ventilation may be used.

Personal protective equipment

Respiratory protection : If airborne concentrations pose a health hazard, become irritating, or exceed recommended limits, use a NIOSH approved respirator in accordance with OSHA respiratory protection requirements under 29CFR1910.134.

Hand protection

Remarks

: Chemical resistant gloves (butyl rubber, nitrile rubber, polyvinyl alcohol). However, please note that PVA degrades in water.

Eye protection

: Tightly fitting safety goggles

Skin and body protection

: Wear suitable protective equipment.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

: Liquid

Colour

: Clear, pale yellow

Odour

: amine-like

Odour Threshold

: not determined

pH

: 9.5 - 11.5

Freezing point

: < 32 °F / < 0 °C

Boiling point

: > 149 °F / > 65 °C

Flash point

: > 200.01 °F / > 93.34 °C

Evaporation rate

: not determined

Flammability (solid, gas)

: Not applicable

Self-ignition

: not tested.

Upper explosion limit / upper

: 44 %(V)

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flammability limit

Lower explosion limit / Lower
flammability limit : 5.5 %(V)

Vapour pressure : not determined

Relative vapour density : not determined

Density : 1.05 - 1.09 g/cm³

Solubility(ies)

Water solubility : soluble

Partition coefficient: n-
octanol/water : not determined

Auto-ignition temperature : Not applicable

Decomposition temperature : > 212 °F / > 100 °C

Viscosity

Viscosity, dynamic : < 20 mPa.s (77 °F / 25 °C)

Viscosity, kinematic : not determined

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No dangerous reaction known under conditions of normal use.

Chemical stability : Stable

Possibility of hazardous
reactions : No dangerous reaction known under conditions of normal use.
StableConditions to avoid : Keep away from heat.
Keep away from open flames, hot surfaces and sources of
ignition.

Incompatible materials : not known

Hazardous decomposition
products : No decomposition if stored and applied as directed.**SECTION 11. TOXICOLOGICAL INFORMATION****Information on likely routes of exposure**

Eye contact

Skin contact

Inhalation

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Ingestion
Skin Absorption

Acute toxicity**Product:**

Acute oral toxicity : Acute toxicity estimate: 1,944 mg/kg
Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate: 1.33 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: > 5,000 mg/kg
Method: Calculation method

Components:**2,2',2''-Hexahydro-1,3,5-triazine-1,3,5-triyl)triethanol:**

Acute oral toxicity : LD50 (Rat): 763 mg/kg

Acute inhalation toxicity : LD50 (Rat, male and female): 0.371 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
GLP: yes
Assessment: The component/mixture is highly toxic after short term inhalation.

2-Aminoethanol:

Acute oral toxicity : LD50 (Rat, male and female): 1,089 mg/kg
Method: OECD Test Guideline 401
GLP: no

Acute inhalation toxicity : LC50 (Rat, male and female): ca. 0.136 mg/l
Exposure time: 7 h
Test atmosphere: vapour
Method: OECD Test Guideline 403
GLP: No information available.

Assessment: The component/mixture is moderately toxic after short term inhalation.

Acute dermal toxicity : LD50 (Rabbit, male and female): 2,504 - 2,881 mg/kg
Method: OECD Test Guideline 402
GLP: no

Assessment: The component/mixture is moderately toxic after single contact with skin.

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Skin corrosion/irritation**Product:**

Result: irritating

Remarks: The product has not been tested. The information is derived from the properties of the individual components.

Components:**2-Aminoethanol:**

Species: Rabbit

Exposure time: 4 h

Method: OECD Test Guideline 404

Result: Causes burns.

GLP: No information available.

Serious eye damage/eye irritation**Product:**

Result: irritating

Remarks: This product has not been tested as a separate entity. The hazards have been evaluated based on individual ingredients.

Components:**2,2',2''-Hexahydro-1,3,5-triazine-1,3,5-triyl)triethanol:**

Result: Irritating to eyes.

2-Aminoethanol:

Species: rabbit eye

Result: Risk of serious damage to eyes.

Method: Other

GLP: no

Respiratory or skin sensitisation**Product:**

Species: Guinea pig

Result: Sensitising

Remarks: The product has not been tested. The information is derived from the properties of the individual components.

Components:**2,2',2''-Hexahydro-1,3,5-triazine-1,3,5-triyl)triethanol:**

Result: May cause sensitisation by skin contact.

2-Aminoethanol:

Test Type: Guinea pig maximization test

Exposure routes: Skin contact

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Species: Guinea pig
Method: Magnusson/Kligman
Result: ambiguous
GLP: No information available.

Germ cell mutagenicity**Components:****2-Aminoethanol:**

Genotoxicity in vitro : Test Type: In vitro gene mutation study in mammalian cells
Test system: mouse lymphoma cells
Concentration: 38,1 - 610 µg/ml
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative
GLP: yes

Test Type: Ames test
Test system: Salmonella typhimurium
Concentration: 50 - 5000 µg/plate
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
GLP: No information available.

Test Type: Ames test
Test system: Escherichia coli
Concentration: 50 - 5000 µg/plate
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
GLP: No information available.

Genotoxicity in vivo : Test Type: Chromosome Aberration Test
Species: Mouse (male and female)
Strain: NMRI
Cell type: Erythrocytes
Application Route: oral (gavage)
Exposure time: 24 - 48 h
Dose: 375 - 750 - 1500 mg/kg
Method: OECD Test Guideline 474
Result: negative
GLP: yes

Germ cell mutagenicity - Assessment : It is concluded that the product is not mutagenic based on evaluation of several mutagenicity tests.

Carcinogenicity**Components:****2-Aminoethanol:**

Carcinogenicity - : Not classifiable as a human carcinogen.

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Assessment

IARC

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA

No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity**Components:****2-Aminoethanol:**

Effects on fertility

: Test Type: Two-generation study
Species: Rat, male and female
Application Route: oral (feed)
Dose: 100 - 300 - 1000 mg/kg
General Toxicity - Parent: NOAEL: 300 mg/kg body weight
General Toxicity F1: NOAEL: 1,000 mg/kg body weight
General Toxicity F2: NOAEL: 1,000 mg/kg body weight
Method: OECD Test Guideline 416
GLP: yes

Effects on foetal development

: Species: Rat
Strain: wistar
Application Route: oral (gavage)
Dose: 40 - 120 - 450 mg/kg
General Toxicity Maternal: NOAEL: 120 mg/kg body weight
Teratogenicity: NOAEL: >= 450 mg/kg body weight
Method: OECD Test Guideline 414
GLP: No information available.

Reproductive toxicity - Assessment

: No reproductive toxicity to be expected.
No teratogenic effects to be expected.

STOT - single exposure**Components:****2-Aminoethanol:**

Assessment: May cause respiratory irritation.

STOT - repeated exposure**Components:****2,2',2"-Hexahydro-1,3,5-triazine-1,3,5-triyl)triethanol:**

Exposure routes: Inhalation

Target Organs: Respiratory system

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Assessment: Causes damage to organs through prolonged or repeated exposure.

2-Aminoethanol:

Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Repeated dose toxicity**Components:****2-Aminoethanol:**

Species: Rat, male and female

NOAEL: 300 mg/kg

Application Route: oral (feed)

Exposure time: semichronic duration (> 75 d)

Number of exposures: daily

Dose: 100 - 300 - 1000 mg/kg

Group: yes

Method: Other

GLP: yes

Species: Rat, male and female

NOAEL: 10 mg/l

Application Route: Inhalation

Exposure time: 28 d

Number of exposures: 6 hours/day, 5 days/week

Dose: 10,2 - 49,1 - 155,9 mg/m³

Group: yes

Method: OECD Test Guideline 412

GLP: yes

Application Route: Skin contact

Remarks: This information is not available.

Aspiration toxicity**Components:****2-Aminoethanol:**

No aspiration toxicity classification

Experience with human exposure**Product:**

General Information : The possible symptoms known are those derived from the labelling (see section 2).

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SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity****Product:**

Toxicity to fish : LC50 (Fish): > 100 mg/l
Exposure time: 96 h
Remarks: Based on the components.

Components:**2-Aminoethanol:**

Toxicity to fish : LC50 (Cyprinus carpio (Carp)): 349 mg/l
Exposure time: 96 h
Test Type: semi-static test
Analytical monitoring: yes
Method: Tested according to Directive 92/69/EEC.
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 65 mg/l
Exposure time: 48 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 202
GLP: yes
Remarks: The details of the toxic effect relate to the nominal concentration.

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 2.8 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 201
GLP: yes
Remarks: The details of the toxic effect relate to the nominal concentration.

NOEC (Pseudokirchneriella subcapitata (green algae)): 1 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 201
GLP: yes
Remarks: The details of the toxic effect relate to the nominal concentration.

Toxicity to fish (Chronic toxicity) : NOEC (Oryzias latipes (Orange-red killifish)): 1.24 mg/l
End point: Other
Exposure time: 41 d
Test Type: flow-through test

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Analytical monitoring: no data available
Method: OECD Test Guideline 210
GLP: No information available.

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 0.85 mg/l
End point: Reproduction rate
Exposure time: 21 d
Test Type: semi-static test
Analytical monitoring: yes
Method: OECD Test Guideline 202
GLP: No information available.

Toxicity to microorganisms : EC10 (activated sludge, domestic): > 1,000 mg/l
End point: Bacteria toxicity (respiration inhibition)
Exposure time: 0.5 h
Test Type: aquatic
Method: OECD Test Guideline 209
GLP: no
Remarks: The details of the toxic effect relate to the nominal concentration.

Toxicity to soil dwelling organisms : Remarks: Not applicable

Plant toxicity : Remarks: Not applicable

Sediment toxicity : Remarks: Not applicable

Toxicity to terrestrial organisms : Remarks: Not applicable

Ecotoxicology Assessment

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

Persistence and degradability**Components:****2-Aminoethanol:**

Biodegradability : aerobic
Inoculum: activated sludge
Concentration: 20 mg/l DOC
DOC decrease
Result: Readily biodegradable.
Biodegradation: > 90 %
Exposure time: 21 d
Method: OECD Test Guideline 301A
GLP: no

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Bioaccumulative potential**Components:****2-Aminoethanol:**

Bioaccumulation : Bioconcentration factor (BCF): 2.3 - 9.2
Method: calculated

Mobility in soil**Components:****2-Aminoethanol:**

Distribution among environmental compartments : Adsorption/Soil
Medium: water - soil
log Koc: 1.16
Method: other (calculated)

Other adverse effects**Components:****2-Aminoethanol:**

Environmental fate and pathways : not available

Results of PBT and vPvB assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT).

Additional ecological information : Do not allow to enter ground water, waterways or waste water.

SECTION 13. DISPOSAL CONSIDERATIONS**Disposal methods**

Waste from residues : Can be landfilled or incinerated, when in compliance with local regulations.

SECTION 14. TRANSPORT INFORMATION

DOT not restricted

IATA not restricted

IMDG not restricted

Further information:

In aerosol form, the product can be toxic by inhalation.
However, the generation of a mist/aerosol is not likely in the event of leakage of primary containment for this product during transport operations.

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SECTION 15. REGULATORY INFORMATION**EPCRA - Emergency Planning and Community Right-to-Know Act****CERCLA Reportable Quantity**

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Formaldehyde	50-00-0	100	*

*: Calculated RQ exceeds reasonably attainable upper limit.

SARA 304 Extremely Hazardous Substances Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Formaldehyde	50-00-0	100	*

*: Calculated RQ exceeds reasonably attainable upper limit.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : Flammable (gases, aerosols, liquids, or solids)
 Acute toxicity (any route of exposure)
 Skin corrosion or irritation
 Serious eye damage or eye irritation
 Respiratory or skin sensitisation
 Carcinogenicity
 Specific target organ toxicity (single or repeated exposure)

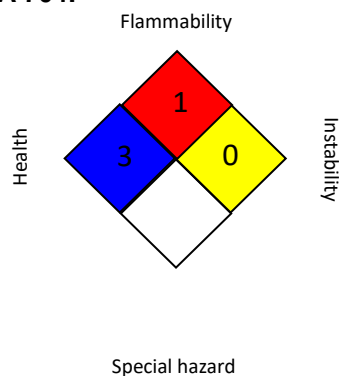
SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Water Act

This product is not a Clean Water Act priority pollutant.

The components of this product are reported in the following inventories:

TSCA : All components are compliant with the TSCA Inventory Notification (Active) rule.

SECTION 16. OTHER INFORMATION**Further information****NFPA 704:****Full text of other abbreviations**

ACGIH	: USA. ACGIH Threshold Limit Values (TLV)
NIOSH REL	: USA. NIOSH Recommended Exposure Limits
OSHA P0	: USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
OSHA Z-1	: USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
ACGIH / TWA	: 8-hour, time-weighted average
ACGIH / STEL	: Short-term exposure limit
NIOSH REL / TWA	: Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
NIOSH REL / ST	: STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday
OSHA P0 / TWA	: 8-hour time weighted average
OSHA P0 / STEL	: Short-term exposure limit
OSHA Z-1 / TWA	: 8-hour time weighted average

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50

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- Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Observe all necessary precautions for handling combustible liquids.

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