

Revision Date: 02/13/2024

SAFETY DATA SHEET

Classified in accordance with 29 CFR 1910.1200

1. Identification

Product identifier: Dynasylan® AMMO

Chemical name:

3-(TrimethoxysilyI)propylamine

Other means of identification

CAS Number: 13822-56-5

Recommended restrictions

Recommended use: For industrial use Coupling agent Crosslinking agents Surface modifier

Restrictions on use: Not determined.

Manufacturer/Importer/Distributor Information

Company Name : Evonik Corporation

2 Turner Place

Piscataway, NJ 08854

USA

Telephone : +1 732 981 5000

E-mail : product-regulatory-services@evonik.com

Emergency telephone number:

24-Hour Health : +1 800 424 9300 (CHEMTREC - US & CANADA)

Emergency 800 681 9531 (CHEMTREC MEXICO)

+1 703 527 3887 (CHEMTREC WORLD)

2. Hazard(s) identification

Hazard Classification

Physical Hazards

Flammable liquids Category 4

Health Hazards

Skin Corrosion/Irritation Category 2
Serious Eye Damage/Eye Irritation Category 1

Label Elements

Hazard Symbol:





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Signal Word: Danger

Hazard Statement:

Combustible liquid. Causes skin irritation.

Causes serious eye damage.

Precautionary Statements

Prevention: Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking. Wash face, hands and any exposed skin thoroughly after handling. Wear protective gloves/ protective clothing/ eye protection/

face protection.

Response: IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs:

Get medical advice/attention. Take off contaminated clothing. Specific treatment (see supplemental first aid instructions on this label). IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. In case of fire: Use dry sand, dry chemical or alcohol-

resistant foam for extinction.

Storage: Store in a well-ventilated place. Keep cool.

Disposal: Dispose of contents/ container to an approved facility in accordance with

local, regional, national and international regulations.

Hazard(s) not otherwise classified (HNOC):

None.

3. Composition/information on ingredients

Chemical name:

3-(Trimethoxysilyl)propylamine

Substances

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
3-(Trimethoxysilyl)propylamine		13822-56-5	>=90 - <=100%
Toluene		108-88-3	<0.1%

^{*} All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

Composition information of impurities and stabilizers

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
methanol		67-56-1	<0.3%

^{*} All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.



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The exact concentration has been withheld as a trade secret.

4. First-aid measures

Description of first aid measures

General information: Immediately remove contaminated clothing.

Inhalation: If aerosol or mists are formed: Move to fresh air. Get

medical attention if any discomfort continues.

Skin Contact: Wash off immediately with plenty of water. If skin irritation

persists, call a physician.

Eye contact: With eye held open, thoroughly rinse immediately with plenty

of water for at least 10 minutes. Continue rinsing process with eye rinsing solution. Protect unharmed eye. Call ambulance. (Cue: caustic burn of the eyes) Immediate further treatment in eye clinic/by eye doctor. continue rinsing

eye until arrival at ophthalmic hospital.

Ingestion: Have the mouth rinsed with water. Only when patient fully

conscious: Have patient drink plenty of water in small sips.

Get medical attention immediately.

Personal Protection for First-aid

Responders:

No data available.

Most important symptoms and effects, both acute and delayed

Symptoms: After absorbing large amounts of substance: Liberation of

reaction products (Methanol) can lead to symptoms of poisoning. Possible signs of poisoning: daze, dizziness, nausea, colicky abdominal pain, respiratory disturbance. Symptoms upon increasing intoxication: dysopia, loss of

eyesight.

Hazards: None known.

Indication of immediate medical attention and special treatment needed

Treatment: If required, therapy of irritative effect. Treatment Early

endoscopy in order to assess mucosa lesions in the oesophagus and stomach which may appear. If necessary, aspirate leftover substance. Detection of substance

(Methanol) possible in: Blood Antidote treatment: ethanol.

5. Fire-fighting measures

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: Water spray, foam, dry powder or carbon dioxide.

Unsuitable extinguishing media: High volume water jet.



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Special hazards arising from the substance or mixture:

Hazardous fumes in fires, specific to the product: Nitrogen OxidesCombustible liquid. Vapors can travel to a source of ignition and flash back. Explosive mixtures may occur at temperatures at or above the flashpoint.

Special protective equipment and precautions for firefighters

Special fire fighting procedures: As in any fire, wear self-contained positive-pressure

breathing apparatus, (MSHA/NIOSH approved or

equivalent) and full protective gear. Containers can build up pressure if exposed to heat (fire). Cool with water spray.

Special protective equipment for fire-

fighters:

In case of fire: wear a self contained respiratory apparatus

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Use personal protective equipment.

Accidental release measures: Remove sources of ignition and ventilate area. Run off may

create fire or explosion hazard in sewer. Assure sufficient

ventilation.

Methods and material for containment

and cleaning up:

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to

local / national regulations (see section 13).

Environmental Precautions: Obey relevant local, state, provincial and federal laws and

regulations. Do not contaminate any lakes, streams, ponds,

groundwater or soil.

7. Handling and storage

Handling

Technical measures: No data available.

Local/Total ventilation: Application, processing: Provide good ventilation or

extraction.

Safe handling advice: Application, processing: Provide good ventilation or

extraction. Avoid contact with eyes, skin, and clothing. For personal protection see section 8. Vapors may spread long distances and travel to areas away from the work site before

igniting or flashing back to the vapor source.

Keep away from heat, sparks, flames and other sources of

ignition. Keep container tightly closed. Use only with

adequate ventilation.

Follow all SDS/label precautions even after container is emptied because it may retain product residues. Handle in accordance with good industrial hygiene and safety practice. Wear suitable protective equipment. Do not breathe in vapours or aerosols. If workplace exposure limits are exceeded and/or larger amounts are released (leakage, spilling, dust) the indicated respiratory protection should be used. Avoid contact with eyes, skin, and clothing. If there is



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the possibility of skin/eye contact, the indicated

hand/eye/body protection should be used. Use protective

clothing / face shield if necessary.

Contact avoidance measures: No data available.

Storage

Safe storage conditions:

Keep away from sources of ignition - No smoking. Keep containers tightly closed in a cool, well-ventilated place. Protect from moisture. Residual vapors might explode on ignition; do not apply heat, cut, drill, grind or weld on or near this container. This material may have a low electrical conductivity and therefore may accumulate dangerous levels of static electricity. An ignitable vapor-air mixture can form inside storage tanks.

The user must be sure to dissipate static charge by careful bonding and grounding of all equipment and personnel involved in fluid transfer with continuity checks to prove effectiveness. Additional precautions against fire and explosion are the use of inert gas to purge vapor space; dippipes while filling vessels, especially lined vessels; grounded tank level floats; reduced flow velocity; self-closing valves on transfer lines and flame arrestors in vent lines.

Additional guidance on fire and explosion protection may be found in various consensus standards, including NFPA 30, 69 and 77 and API 2003 as well as OSHA regulation 29CFR1910.106.

Follow all SDS/label precautions even after container is emptied because it may retain product residues.

Safe packaging materials: No data available.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Chemical Identity	Type	Exposure I	_imit Values	Source ACGIH (03 2016)	
Toluene		20 ppm			
	STEL	150 ppm	560 mg/m3	NIOSH (2010)	
	REL	100 ppm	375 mg/m3	NIOSH (2010)	
	TWA	200 ppm		OSHA Z2 (02 2006)	
	Ceiling	300 ppm		OSHA Z2 (02 2006)	
	MAX. CONC	500 ppm		OSHA Z2 (02 2006)	
methanol	TWA	200 ppm		ACGIH (03 2016)	
	STEL	250 ppm		ACGIH (03 2016)	
	STEL	250 ppm	325 mg/m3	NIOSH (2010)	
	REL	200 ppm	260 mg/m3	NIOSH (2010)	
	PEL	200 ppm	260 mg/m3	OSHA Z1 (03 2016)	

Please refer to the latest edition of the appropriate source text and consult an industrial hygienist or similar professional, or local agencies, for further information.

Biological Limit Values

No biological exposure limits noted for the ingredient(s).



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Appropriate Engineering Controls

Application, processing: Provide good ventilation or

extraction.

Individual protection measures, such as personal protective equipment

Eye/face protection: close-fitting protective goggles (e.g. closed goggles)

Skin Protection

Hand Protection: Material: Butyl rubber.

Break-through time: >= 480 min Material: Fluorinated rubber (Viton) Break-through time: >= 480 min

Additional Information: The above mentioned hand protection is based on knowledge of the chemistry and anticipated uses of this product but it may not be appropriate

for all workplaces. A hazard assessment should be conducted prior to use to ensure suitability of gloves for specific work environments and processes prior to use., Selection of protective gloves to meet the requirements of specific workplaces., The suitability for a specific workplace should be discussed with the producers of the protective

gloves., Use impermeable gloves.

Skin and Body Protection: When handling larger quantities: chemical protective suit,

disposable protective clothing, acid-proof (Solvent-resistant)

Safety showers and eye showers should be easily accessible. In order to determine further specifications applicable to the personal protection equipment, a hazard assessment according to the OSHA standards (29 CFR 1910.132) for personal protection equipment (PPE) is

recommended before the product is used.

Respiratory Protection: A respiratory protection program that meets OSHA 1910.134

and ANSI Z88.2 or applicable federal/provincial requirements must be followed whenever workplace conditions warrant respirator use. NIOSH's "Respirator Decision Logic" may be useful in determining the suitability

of various types of respirators.

Hygiene measures: When using, do not eat, drink or smoke. Wash face and/or

hands before break and end of work. Take off immediately all contaminated clothing. Wash contaminated clothing

before reuse.

9. Physical and chemical properties

Information on basic physical and chemical properties Appearance

Physical state: liquid
Form: liquid
Color: colorless

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Odor: amine-like ammoniacal

Odor Threshold: No data available. Freezing point: < -76 °F/ < -60 °C

Literature

Boiling Point: 381 °F/194 °C at 1,013 hPa

Method: DIN 51751

Flammability: No data available.

Upper/lower limit on flammability or explosive limits

Explosive limit - upper:No data available. **Explosive limit - lower:**No data available.

Flash Point: 194 °F/90 °C

Method: DIN EN ISO 2719

Auto-ignition temperature: 563 °F/295 °C

1,013 hPa

Method: DIN 51794

Decomposition Temperature: No data available.

pH: > 9.0 at 68 °F/20 °C

Concentration: 20 g/l

Viscosity

Dynamic viscosity: 2 mPa.s at 68 °F/20 °C

Method: DIN 53015

Kinematic viscosity: No data available.

Flow Time: No data available.

Solubility(ies)

Solubility in Water: not miscible decomposition by hydrolysis

Solubility (other): No data available.

Partition coefficient (n-octanol/water): 0.2 at 68 °F/20 °C

Method: QSAR

Vapor pressure: 18 Pa at 68 °F/20 °C

Method: QSAR

Relative density: No data available.

Density: Approximate

1.02 g/cm3 at 68 °F/20 °C Method: DIN 51757

Bulk density: No data available.

Relative vapor density: No data available.

Other information

Explosive properties:Not explosive **Peroxides:**Not applicable

10. Stability and reactivity

Reactivity: No dangerous reaction known under conditions of normal

use.



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Chemical Stability: Stable under recommended storage conditions.

Possibility of hazardous reactions: Exothermic reaction with: acids

Conditions to avoid: Keep away from heat and sources of ignition. Vapours

may form explosive mixtures with air.

Incompatible Materials: Acids.

Hazardous Decomposition

Products:

Methanol in case of hydrolysis. Alcohol formed by hydrolysis lowers the flash point of the product.

11. Toxicological information

Information on likely routes of exposure

Inhalation: Information on effects are given below.

Skin Contact: Information on effects are given below.

Eye contact: Information on effects are given below.

Ingestion: Information on effects are given below.

Acute toxicity (list all possible routes of exposure)

Oral

Product: LD 50, Rat, Male, 3,030 mg/kg, OECD 401

Dermal

Product: LD 50, Rabbit, Male, > 10,000 mg/kg, OECD 402

Inhalation

Product: Not classified for acute toxicity based on available data.

Repeated dose toxicity

Product: NOAEL Rat, Female, Male, Oral, 90 day, 7 days a week, 200 mg/kg,

LOAEL Rat, Female, Male, Oral, 90 day, 7 days a week, 600 mg/kg,

(analogy)

Skin Corrosion/Irritation

Product: Irritating., OECD 404, (Rabbit)

Serious Eye Damage/Eye Irritation

Product: Risk of serious damage to eyes., OECD 405, Rabbit

Respiratory or Skin Sensitization

Product: Maximization Test, OECD 406, Guinea Pig, Not a skin sensitizer.

Carcinogenicity

Product: To our knowledge, 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, IARC, or OSHA. No evidence that cancer may be caused.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogens present or none present in regulated quantities

ACGIH: US.ACGIH Threshold Limit Values:

No carcinogens present or none present in regulated quantities



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US. National Toxicology Program (NTP) Report on Carcinogens:

No carcinogens present or none present in regulated quantities

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053), as amended:

No carcinogens present or none present in regulated quantities

Germ Cell Mutagenicity

In vitro

Product: Ames test, OECD 471: , negative

Chromosomal aberration, OECD 473: , negative gene mutation test, OECD 476: , negative, (analogy)

In vivo

Product: Micronucleus test, OECD 474, Intraperitoneal, Mouse, negative,

(analogy)

Reproductive toxicity

Product: An Expert Judgment stated that no classification is necessary based on

present knowledge.

Specific Target Organ Toxicity - Single Exposure

Product: no evidence for hazardous properties

Specific Target Organ Toxicity - Repeated Exposure

Product: no evidence for hazardous properties

Aspiration Hazard

Product: No evidence of aspiration toxicity

Information on health hazards

Other hazards

Product: No data available.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product: LC 50, Danio rerio, 96 h, > 934 mg/IOECD 203, (analogy)

NOEC, Danio rerio, 96 h, 934 mg/IOECD 203, (analogy)

Aquatic Invertebrates

Product: EC 50, Daphnia magna, 48 h, 331 mg/IOECD 202, (analogy)

Toxicity to Aquatic Plants

Product: EC 50, Desmodesmus subspicatus (green algae), 72 h, > 1,000 mg/l,

OECD 201, (analogy)

Toxicity to microorganisms

Product: EC 10, Pseudomonas putida, 5.75 h, 13 mg/l, DIN EN ISO 10712,

(analogy)

EC 50, Pseudomonas putida, 5.75 h, 43 mg/l, DIN EN ISO 10712,

(analogy)



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Chronic hazards to the aquatic environment:

Fish

Product: No data available.

Components: Toluene

NOEC, Oncorhynchus kisutch, 40 d, 1.39 mg/l

Lowest Observed Effect Concentration, Oncorhynchus kisutch, 40 d,

2.77 mg/l

Aquatic Invertebrates

Product: No data available.

Components: Toluene

EC 50, Ceriodaphnia dubia, 7 d, 3.23 mg/l, US-EPA-method NOEC, Ceriodaphnia dubia, 7 d, 0.74 mg/l, US-EPA-method

Lowest Observed Effect Concentration, Ceriodaphnia dubia, 7 d, 2.76

mg/l, US-EPA-method

Toxicity to microorganisms

Product: EC 10, Pseudomonas putida, 5.75 h, 13 mg/l, DIN EN ISO 10712,

(analogy)

EC 50, Pseudomonas putida, 5.75 h, 43 mg/l, DIN EN ISO 10712,

(analogy)

Persistence and Degradability

Biodegradation

Product: 67 %, 28 d, (DOC; Die Away test - 79/831/EEC part C.4-A), (analogy),

Not readily degradable.

BOD/COD Ratio

Product: No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF)

Product: not bioaccumulative

Partition Coefficient n-octanol / water (log Kow)
Product: 0.2. 20 °C. QSAR

Mobility in soil:

Product: Adsorption on the floor: low.

Results of PBT and vPvB assessment:

Product: No data available.

Other adverse effects:

Other hazards

Product: No ecotoxicological studies are available. The data we have at our

disposal do not necessitate identification concerning environmental

hazard.



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Additional Information: No data available.

13. Disposal considerations

Disposal methods: Waste must be disposed of in accordance with federal, state, provincial

and local regulations. Since empty containers retain product residue, follow MSDS and label warnings even after container is emptied. Residual vapors might explode on ignition; do not apply heat, cut, drill,

grind or weld on or near this container.

Contaminated Packaging: Do not reuse empty containers and dispose of in accordance with the

regulations issued by the appropriate local authorities. If there is product residue in the emptied container, follow directions for handling on the container's label. Incorrect disposal or reuse of this container is illegal and can be dangerous. Other countries: observe the national

regulations.

14. Transport information

Domestic regulation

49 CFR

UN/ID/NA number : NA 1993

Proper shipping name : Combustible liquid, n.o.s.

(3-Aminopropyltrimethoxysilane)

Class : CBL
Packing group : III
Labels : NONE
ERG Code : 128
Marine pollutant : no

Remarks : Not regulated in packages 450 liter or less.

International Regulations

UNRTDG

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

Remarks : Not hazardous freight in air traffic (ICAO-TI / IATA-DGR).

IMDG-Code

Not regulated as a dangerous good

Remarks : Not classified as hazardous sea cargo (IMDG code)., FOR

USA ONLY: In packagings exceeding 450 L, this product must be classified, placarded, marked and shipped as Combustible

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Liquid to the USA.

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

Not applicable for product as supplied.

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

15. Regulatory information

US Federal Regulations



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TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

None present or none present in regulated quantities.

US. Toxic Substances Control Act (TSCA) Section 5(a)(2) Proposed Significant New Use Rules (SNURs) (40 CFR 721, Subpt E)

None present or none present in regulated quantities.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053), as amended None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):

Reportable Quantity not reasonably exceeded.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Flammable (gases, aerosols, liquids, or solids), Skin Corrosion or Irritation, Serious eye damage or eye irritation

US. EPCRA (SARA Title III) Section 304 Extremely Hazardous Substances Reporting Quantities and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substances

None present or none present in regulated quantities.

US. EPCRA (SARA Title III Section 313 Toxic Chemical Release Inventory (TRI) Reporting

None present or none present in regulated quantities.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

None present or none present in regulated quantities.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

None present or none present in regulated quantities.

US State Regulations

US. California Proposition 65



WARNING: This product can expose you to chemicals including, methanol, Toluene which is [are] known to the State of California to cause birth defects or other reproductive harm.

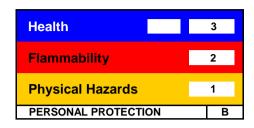
For more information go to www.P65Warnings.ca.gov.



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16.Other information, including date of preparation or last revision

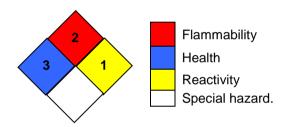
HMIS Hazard ID



B - Safety Glasses & Gloves

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible; *Chronic health effect

NFPA Hazard ID



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible

Version #: 1.2

Generation date: 02/13/2024

Date of first report version: 05/20/2019

Abbreviations and acronyms:

ACGIH: US. ACGIH Threshold Limit Values, as amended

NIOSH/GUIDE: US. NIOSH: Pocket Guide to Chemical Hazards, as amended

OSHA_TRANS: US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000),

as amended

OSHA/Z2: US. OSHA Table Z-2 (29 CFR 1910.1000), as amended

ACGIH / STEL: Short Term Exposure Limit (STEL):
ACGIH / TWA: Time Weighted Average (TWA):
NIOSH/GUIDE / REL: Recommended exposure limit (REL):
NIOSH/GUIDE / STEL: Short Term Exposure Limit (STEL):

OSHA_TRANS / PEL: Permissible exposure limit:

OSHA/Z2 / Ceiling: Ceiling Limit Value:

OSHA/Z2 / TWA: Time Weighted Average (TWA):

OSHA/Z2 / MAX. CONC: Maximum concentration:

AIIC - Australian Inventory of Industrial Chemicals; 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 -



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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 - 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; TECI - Thailand Existing Chemicals 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

Further Information: No data available.

Revision Information Changes since the last version are highlighted in the margin. This version

replaces all previous versions.

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