

Product name: SURFYNOL® 104

SAFETY DATA SHEET

Classified in accordance with 29 CFR 1910.1200

1. Identification

Product identifier: SURFYNOL® 104

Chemical name:
Acetylene diol

Other means of identification

CAS Number: 126-86-3

Recommended restrictions

Recommended use: Industrial use
Restrictions on use: None known.

Manufacturer/Importer/Distributor Information

Company Name : Evonik Corporation
Nutrition & Care
7801 Whitepine Road
Richmond, VA 23237
USA

Telephone : +1 804 727 0700

Fax : +1 804 727 0845

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

Emergency telephone number:

24 Hour Emergency Telephone : +1 800 424 9300 (CHEMTREC - US & CANADA)
800 681 9531 (CHEMTREC MEXICO)
+1 703 527 3887 (CHEMTREC WORLD)

2. Hazard(s) identification

Hazards for the product as supplied

Health Hazards

Serious Eye Damage/Eye Irritation	Category 1
Skin sensitizer	Category 1B

Environmental Hazards

Acute hazards to the aquatic environment	Category 3
Chronic hazards to the aquatic environment	Category 3

Hazard(s) not otherwise classified (HNOC): None.

Label Elements

Product name: SURFYNOL® 104

Hazard Symbol:

Signal Word: Danger

Hazard Statement:

 Causes serious eye damage.
 May cause an allergic skin reaction.
 Harmful to aquatic life with long lasting effects.

Precautionary Statements
Prevention:

Avoid breathing dust/fume/gas/mist/vapors/spray. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention. 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.

Disposal:

Dispose of contents/ container to an approved facility in accordance with local, regional, national and international regulations.

3. Composition/information on ingredients
Chemical name:

Acetylene diol

Substances

Chemical Identity	Common name and synonyms	CAS No./Unique ID	Content in percent (%) [*]	Trade Secret
2,4,7,9-Tetramethyldec-5-yne-4,7-diol		126-86-3 [*]	>99.9%	TSC

^{*} Indicates that the identifier is a CAS No.

TSC- the actual concentration or concentration range is withheld as a trade secret

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

The exact concentration has been withheld as a trade secret.

4. First-aid measures
Description of first aid measures
General information:

Remove soiled or soaked clothing immediately

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Inhalation:	fresh air supply, consult a doctor if feeling unwell.
Skin Contact:	In case of contact with skin wash off with soap and water. In case of discomfort: Supply with medical care.
Eye contact:	In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice
Ingestion:	Thoroughly clean the mouth with water In case of discomfort: Supply with medical care.
Personal Protection for First-aid Responders:	No data available.

Most important symptoms and effects, both acute and delayed

Symptoms:	Risk of serious damage to eyes.
Hazards:	No data available.

Indication of immediate medical attention and special treatment needed

Treatment:	Treat symptomatically.
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5. Fire-fighting measures

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media:	foam, carbon dioxide, dry powder, water spray.
Unsuitable extinguishing media:	High volume water jet.
Special hazards arising from the substance or mixture:	In the event of fire the following can be released: - carbon dioxide, carbon monoxide Aldehydes. Under certain conditions of combustion traces of other toxic substances cannot be excluded

Special protective equipment and precautions for firefighters

Special fire fighting procedures:	Keep away from sources of ignition. Take action to prevent static discharges. Dust may form explosive mixture with air. Cool endangered containers by water spray
Special protective equipment for fire-fighters:	Do not inhale explosion and/or combustion gases. Use self-contained breathing apparatus and wear protective suit

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:	Use personal protective equipment. Avoid dust formation.
Accidental release measures:	No data available.
Methods and material for containment and cleaning up:	Use mechanical handling equipment. Dispose of absorbed material in accordance with the regulations.

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Environmental Precautions:

Do not allow to enter drains or waterways Prevent product from getting into subsoil/soil.

7. Handling and storage**Handling**

Technical measures:	No data available.
Local/Total ventilation:	No data available.
Safe handling advice:	Provide good ventilation of working area (local exhaust ventilation if necessary). Avoid the formation and deposition of dust.Do not inhale dust/fumes/aerosols. Avoid contact with skin and eyes.
Contact avoidance measures:	No data available.

Storage

Safe storage conditions:	Keep container tightly closed in a cool, well-ventilated place.Do not store with acids or alkalies Do not store together with oxidizing agents.
Safe packaging materials:	No data available.

8. Exposure controls/personal protection**Control Parameters****Occupational Exposure Limits**

None of the components have assigned exposure limits.

Biological Limit Values

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

Appropriate Engineering Controls

No data available.

Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection:	Tightly fitting safety goggles
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Skin Protection

Hand Protection:	Additional Information: gloves made of chloroprene (CR, e.g. Neoprene), gloves made of nitril (NBR)
Skin and Body Protection:	protective clothing
Respiratory Protection:	in case of formation of vapours/aerosols: Short term: filter apparatus, Filter P3

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Hygiene measures:

Wash hands before breaks and immediately after handling the product. When using do not eat, drink or smoke.
Remove soiled or soaked clothing immediately. Use skin protective preparation as preventive skin protection.

9. Physical and chemical properties**Information on basic physical and chemical properties****Appearance**

Physical state: solid
Form: wax
Color: White

Odor: like menthol

Odor Threshold: not measured

Melting Point: 129 - 131 °F/ 54 - 55 °C
Method: OECD 102

Boiling Point: 504 °F/ 262 °C
Method: OECD 103

Flammability: not measured

Upper/lower limit on flammability or explosive limits

Explosive limit - upper: not measured

Explosive limit - lower: not measured

Flash Point: 338 °F/170 °C

Auto-ignition temperature: not measured

Decomposition Temperature: not measured

pH: not measured

Viscosity

Dynamic viscosity: not measured

Kinematic viscosity: not measured

Flow Time: No data available.

Solubility(ies)

Solubility in Water: 1.7 g/l (68 °F/20 °C)
Method: OECD 105

Solubility (other): not measured

Partition coefficient (n-octanol/water): 2.8 (72 °F/22 °C)
Method: OECD 117

Vapor pressure: 0.0062 hPa (68 °F/20 °C)
Method: OECD 104

Relative density: not measured

Density: 0.882 g/cm³ (77 °F/25 °C)

Bulk density: No data available.

Vapor density (air=1): not measured

Particle characteristics: No data available.

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Other information

Explosive properties:	not measured
Oxidizing properties:	not oxidizing
Self-ignition:	716 °F/380 °C 1,015 hPa
Metal Corrosion:	Not corrosive to metals
Evaporation Rate:	not measured
Surface tension:	32.7 mN/m 0.1 (68 °F/20 °C)

10. Stability and reactivity

Reactivity:	see section "Possibility of hazardous reactions".
Chemical Stability:	The product is stable under normal conditions.
Possibility of hazardous reactions:	No hazardous reactions with proper storage and handling
Conditions to avoid:	None with proper storage and handling.
Incompatible Materials:	Oxidizing agents. Acids. Alkalies.
Hazardous Decomposition Products:	None with proper storage and handling.

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.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation:	No data available.
Skin Contact:	No data available.
Eye contact:	No data available.
Ingestion:	No data available.

Acute toxicity (list all possible routes of exposure)**Oral**

Product:	LD 50, Rat, > 5,000 mg/kg
Components:	
2,4,7,9-Tetramethyldec-5-yne-4,7-diol	LD 50, Rat, Female, Male, > 5,000 mg/kg

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Dermal

Product: LD 50, Rabbit, > 5,000 mg/kg, OECD 402

Components:
 2,4,7,9-Tetramethyldec-5-yne-4,7-diol LD 50, Rabbit, > 5,000 mg/kg, OECD 402

Inhalation

Product:
 LC 50, Rat, 1 h, > 20 mg/l, Dust and mist
 LC 50, Rat, 4 h, > 5 mg/l, Dust and mist

Components:
 2,4,7,9-Tetramethyldec-5-yne-4,7-diol LC 50, Rat, 4 h, > 5 mg/l, Dust and mist
 Vapour, Not toxic after single exposure, No data available.

Repeated dose toxicity

Product: NOAEL - No Observable Adverse Effect Level, Rat, Oral, daily, 500 mg/kg

Components:
 2,4,7,9-Tetramethyldec-5-yne-4,7-diol NOAEL - No Observable Adverse Effect Level, Rat, Oral, daily, 500 mg/kg
 NOAEL - No Observable Adverse Effect Level, Rat, Male, Oral, daily, 174 mg/kg, Own study
 NOAEL - No Observable Adverse Effect Level, Rat, Female, Oral, daily, 208 mg/kg, Own study

Skin Corrosion/Irritation

Product: Not irritating, OECD 404, (Rabbit, 4 h), Not irritating

Components:
 2,4,7,9-Tetramethyldec-5-yne-4,7-diol Not irritating, OECD 404, Rabbit, 4 h

Serious Eye Damage/Eye Irritation

Product: Risk of serious damage to eyes., TSCA 40 CFR Subpart E, 798.4500, Rabbit, Risk of serious damage to eyes.

Components:
 2,4,7,9-Tetramethyldec-5-yne-4,7-diol Risk of serious damage to eyes., US-EPA-method, Rabbit

Respiratory or Skin Sensitization

Product: Local Lymph Node Assay (LLNA), OECD 429, Mouse, Skin sensitizer

Components:
 2,4,7,9-Tetramethyldec-5-yne-4,7-diol Local Lymph Node Assay (LLNA), OECD 429, Mouse, Skin sensitizer

Carcinogenicity

Product: No data available.

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

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

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Germ Cell Mutagenicity

No data available.

In vitro**Product:**Bacterial reverse mutation assay, OECD 471: , negative, Own study
Chromosomal aberration, OECD 473: , negative, Own study
gene mutation test, OECD 476: , negative, Own study**Components:**

2,4,7,9-Tetramethyldec-5-yne-4,7-diol

Ames test, OECD 471: , negative, Own study
Chromosomal aberration, OECD 473: , negative, Own study
gene mutation test, OECD 476: , negative, Own study**In vivo**

Not classified based on available data.

Reproductive toxicity**Effects on fertility****Product:**Species: Rat
Route: Oral
Dose: 0, 500, 1000, 2000 mg/kg bw/day
General Toxicity Parent: NOAEL, 500 mg/kg bw/day
General Toxicity F1: NOAEL, 500 mg/kg bw/day**Components:**

2,4,7,9-Tetramethyldec-5-yne-4,7-diol

Species: Rat
Route: Oral
Dose: 0, 500, 1000, 2000 mg/kg bw/day
General Toxicity Parent: NOAEL, 500 mg/kg bw/day
General Toxicity F1: NOAEL, 500 mg/kg bw/dayTest Type: Screening for reproductive/developmental toxicity
Species: Rat, Male
Strain: Sprague-Dawley
Route: oral: feed
Dose: 800, 2500, 7500 ppm
Frequency of Treatment: 29 day(s)
General Toxicity Parent: NOAEL, 174 mg/kg bw/day
General Toxicity F1: NOAEL, 518, mg/kg bw/day
Method: OECD 422
Result: Animal testing did not show any effects on fertility.
GLP: GLP
Remarks: Own studyTest Type: Screening for reproductive/developmental toxicity
Species: Rat, Female
Strain: Sprague-Dawley
Route: oral: feed
Dose: 800, 2500, 7500 ppm
Frequency of Treatment: 43 day(s)
General Toxicity Parent: NOAEL, 208 mg/kg bw/day
General Toxicity F1: NOAEL, 633, mg/kg bw/day
Method: OECD 422
Result: Animal testing did not show any effects on fertility.
GLP: GLP
Remarks: Own study**Effects on fetal development****Product:**

Species: Rat

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Components:
 2,4,7,9-Tetramethyldec-5-yne-4,7-diol

Strain: Sprague-Dawley
 Route: oral: feed
 Dose: 0, 500, 1000, 2000 mg/kg bw/day
 General Toxicity Maternal: NOAEL, 500 mg/kg bw/day
 Embryo-fetal toxicity: NOAEL, 500 mg/kg bw/day

Species: Rat
 Strain: Sprague-Dawley
 Route: oral: feed
 Dose: 0, 500, 1000, 2000 mg/kg bw/day
 General Toxicity Maternal: NOAEL, 500 mg/kg bw/day
 Embryo-fetal toxicity: NOAEL, 500 mg/kg bw/day

Test Type: Teratogenicity
 Species: Rat
 Strain: Sprague-Dawley
 Route: oral: feed
 Dose: 1500, 5000, 15000 ppm
 Duration of Single Treatment: 16 d
 General Toxicity Maternal: NOAEL, 15,000 ppm
 Teratogenicity: NOAEL, 15,000 ppm
 Method: OECD 422
 Result: No adverse effects
 GLP: GLP

Reproductive toxicity - Assessment

Product: Reproductive toxicity: No data available.
 Teratogenicity: No data available.

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Aspiration Hazard

Product: Not classified
Components:
 2,4,7,9-Tetramethyldec-5-yne-4,7-diol Not applicable

Information on health hazards

Other hazards

Product: No data available.

12. Ecological information

Ecotoxicity:

Toxicity to Aquatic Plants

Product: ErC10, Selenastrum capricornutum (green algae), 72 h, 15 mg/l, OECD 201
 ErC50, Selenastrum capricornutum (green algae), 72 h, 82 mg/l, OECD 201

Components:
 2,4,7,9-Tetramethyldec-5-yne-4,7-diol ErC10, Selenastrum capricornutum (green algae), 72 h, 15 mg/l, OECD

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yne-4,7-diol 201
 ErC50, Selenastrum capricornutum (green algae), 72 h, 82 mg/l, OECD 201

Toxicity to microorganisms

Not classified based on available data.

Toxicity to soil dwelling organisms

Product: N-Transformation, NOEC, soil microorganisms, 28 d, 97.7 mg/kg, N-Transformation, OECD 216, GLP

Components:
 2,4,7,9-Tetramethyldec-5-yne-4,7-diol N-Transformation, NOEC, soil microorganisms, 28 d, 97.7 mg/kg, N-Transformation, OECD 216, GLP

Toxicity to terrestrial organisms

Product: EC 10, 3.84 mg/kg, dry weight Shoot, OECD 208, GLP

Components:
 2,4,7,9-Tetramethyldec-5-yne-4,7-diol EC 10, 3.84 mg/kg, dry weight Shoot, OECD 208, GLP

Acute hazards to the aquatic environment:

Fish

Product: LC 50, Cyprinus carpio, 96 h, 42 mg/l, OECD 203, Own study

Components:
 2,4,7,9-Tetramethyldec-5-yne-4,7-diol LC 50, Cyprinus carpio, 96 h, 42 mg/l, OECD 203, Own study

Aquatic Invertebrates

Product: EC 50, Daphnia magna, 91 mg/l, OECD 202, Own study

Components:
 2,4,7,9-Tetramethyldec-5-yne-4,7-diol EC 50, Daphnia magna, 91 mg/l, OECD 202, Own study

Chronic hazards to the aquatic environment:

Fish

Product: NOEC, Danio rerio, 35 d, > 10 mg/l, OECD 210

Components:
 2,4,7,9-Tetramethyldec-5-yne-4,7-diol NOEC, Danio rerio, 35 d, > 10 mg/l, OECD 210

Aquatic Invertebrates

Product: NOEC, Daphnia magna, 21 d, > 10 mg/l, OECD 211

Components:
 2,4,7,9-Tetramethyldec-5-yne-4,7-diol NOEC, Daphnia magna, 21 d, > 10 mg/l, OECD 211

Persistence and Degradability

Biodegradation

Components:
 2,4,7,9-Tetramethyldec-5-yne-4,7-diol < 10 %, 60 d, OECD 309, aerobic

BOD/COD Ratio

No data available.

Bioaccumulative potential

Product name: SURFYNOL® 104

Bioconcentration Factor (BCF)**Product:** No data available.**Components:**2,4,7,9-Tetramethyldec-5- Cyprinus carpio, 17.00, (analogy)
yne-4,7-diol Cyprinus carpio, < 24, (analogy)**Partition Coefficient n-octanol / water (log Kow)****Product:** 2.8, 22 °C, OECD 117, Yes**Components:**2,4,7,9-Tetramethyldec-5- 2.8, 22 °C, OECD 117, Yes
yne-4,7-diol**Mobility in soil:****Product:** water / soil: - Log Koc: 1.48 Koc: 30 OECD 106)
water / soil: - Log Koc: 1.48 Koc: 30 OECD 106)**Components:**2,4,7,9-Tetramethyldec-5- water / soil: - Log Koc: 1.48 Koc: 30 OECD 106)
yne-4,7-diol**Results of PBT and vPvB assessment:**

No data available.

Other adverse effects:**Additional ecological information****Product:** Do not allow to enter soil, waterways or waste water canal.**13. Disposal considerations****Disposal methods:** In accordance with local authority regulations, take to special waste incineration plant**Contaminated Packaging:** If empty contaminated containers are recycled or disposed of, the receiver must be informed about possible hazards.**14. Transport information****Domestic regulation****49 CFR**

Not regulated as a dangerous good

Remarks : Not dangerous according to transport regulations.

International Regulations**UNRTDG**

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

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

Not applicable for product as supplied.

Product name: SURFYNOL® 104

15. Regulatory information**US Federal Regulations****TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

None present or none present in regulated quantities (on the basis of current knowledge of the product composition).

US. Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721 and 725, Subpt E)

None present or none present in regulated quantities (on the basis of current knowledge of the product composition).

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

None present or none present in regulated quantities (on the basis of current knowledge of the product composition).

CERCLA Hazardous Substance List (40 CFR 302.4):

None present or none present in regulated quantities (on the basis of current knowledge of the product composition).

Superfund Amendments and Reauthorization Act of 1986 (SARA)**Hazard categories**

Serious eye damage or eye irritation, Respiratory or Skin Sensitization

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 (on the basis of current knowledge of the product composition).

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

None present or none present in regulated quantities (on the basis of current knowledge of the product composition).

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

None present or none present in regulated quantities (on the basis of current knowledge of the product composition).

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

None present or none present in regulated quantities (on the basis of current knowledge of the product composition).

US State Regulations**US. California Proposition 65**

No ingredient requiring a warning under CA Prop 65.

Inventory Status:**US TSCA Inventory:**

Included on Inventory.

Canada DSL Inventory List:

Included on Inventory.

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

Health	2
Flammability	0
Physical Hazards	0
PERSONAL PROTECTION	B

B - Safety Glasses & Gloves

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

Version #: 3.0

Revision Date: 09/02/2025

Date of first report version: 03/13/2019

Abbreviations and acronyms:

AIIIC - 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 - 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 Significant changes since the last version are highlighted in the margin. This

version replaces all previous versions.

Disclaimer:

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