



Commercial Product Name: ALEXIT-Härter / Hardener 345-55
Product No.: 3455500000000

Revision Date 03/22/2017
Print Date 03/22/2017

Version 1

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product name : ALEXIT-Härter / Hardener 345-55

Product number : 3455500000000

Manufacturer or supplier's details

Company name of supplier : Mankiewicz Coatings L.L.C

Address : 1200 Charleston Regional Parkway
Charleston, South Carolina 29492
USA

Telephone : +1 (843) 6547755

Telefax : +1 (843) 6547759

Emergency telephone : CHEMTREC +1 (800) 4249300 or +1 (703) 5273887

Recommended use of the chemical and restrictions on use

Recommended use : Industrial serial painting

SECTION 2: Hazards identification

GHS Classification

Flammable liquids : Category 3

Acute toxicity (Inhalation) : Category 4

Respiratory sensitization : Category 1

Skin sensitization : Category 1

Carcinogenicity : Category 2

Specific target organ
systemic toxicity - single
exposure : Category 3 (Respiratory system)

Specific target organ
systemic toxicity - repeated
exposure : Category 2

GHS label elements



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Hazard pictograms :



Signal Word :

Danger

Hazard Statements :

H226 Flammable liquid and vapor.
H317 May cause an allergic skin reaction.
H332 Harmful if inhaled.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335 May cause respiratory irritation.
H351 Suspected of causing cancer.
H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary Statements :

Prevention:

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P233 Keep container tightly closed.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.
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/ protective clothing/ eye protection/ face protection.
P285 In case of inadequate ventilation wear respiratory protection.

Response:

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
P308 + P313 IF exposed or concerned: Get medical advice/ attention.
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P363 Wash contaminated clothing before reuse.
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.



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Storage:

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

P403 + P235 Store in a well-ventilated place. Keep cool.

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

Chemical nature : Hardener based on polyisocyanates

Hazardous ingredients

CAS-No.	Chemical name	Concentration (% w/w)
28182-81-2	Hexane, 1,6-diisocyanato-, homopolymer	>= 40 - <= 100
108-65-6	2-methoxy-1-methylethyl acetate	>= 1 - < 5
1330-20-7	xylene	>= 1 - < 5
100-41-4	ethylbenzene	>= 0.5 - < 1
822-06-0	hexamethylene diisocyanate	>= 0.1 - < 0.25

SECTION 4: First aid measures

- General advice : In all cases of doubt, or when sickness symptoms persist, seek medical attention.
Never give anything by mouth to an unconscious person.
- If inhaled : Remove to fresh air, keep patient warm and at rest.
Irregular breathing/no breathing: artificial respiration.
If unconscious place in recovery position and seek medical advice.
- In case of skin contact : Take off all contaminated clothing immediately.
Wash skin thoroughly with soap and water or use recognised skin cleanser.
Do NOT use solvents or thinners !
- In case of eye contact : Remove contact lenses, irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart and seek medical advice.
- If swallowed : Do NOT induce vomiting.
If accidentally swallowed obtain immediate medical attention.
Never give anything by mouth to an unconscious person.



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Keep at rest.

Most important symptoms and effects, both acute and delayed : For information on symptoms and effects refer to Section 2 Hazard statements and Section 11 Toxicological Information.

Notes to physician : No information available.

SECTION 5: Firefighting measures

Suitable extinguishing media : Alcohol resistant foam, CO2, powders, water spray

Unsuitable extinguishing media : High volume water jet

Specific hazards during fire fighting : Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.

Further information : Cool endangered containers with water in case of fire.
DO NOT ALLOW RUN-OFF FROM FIRE FIGHTING TO ENTER DRAINS OR WATER COURSES!!

Special protective equipment for fire-fighters : As in any fire, wear self-contained breathing apparatus pressure - demand, MSHA / NIOSH (approved or equivalent) and full protective gear.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures : Exclude sources of ignition and ventilate the area.
Do not inhale vapors.
Refer to protective measures listed in sections 7 and 8.
Evacuate personnel to safe areas.
Immediately clean contaminated areas with following substances:

Water	45 Vol. %
Ethanol or Isopropyl Alcohol	50 Vol. %
Ammonia solution (density=0,88)	5 Vol. %

Alternative applicable to that (not flammable):

Sodium Carbonate	5 Vol. %
Water	95 Vol. %

Environmental precautions : Do not let product enter drains.
If the product contaminates lakes, rivers or sewage, inform appropriate authorities in accordance with local regulations.
Add the specified decontamination material to the remnants and let stand for several days until no further reaction is observed. Once this stage is reached, close container and dispose according to local regulations.

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Methods and materials for containment and cleaning up : Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13).
Clean preferably with a detergent; avoid use of solvents.

SECTION 7: Handling and storage

Advice on protection against fire and explosion : No special protective measures against fire required.

Advice on safe handling : Persons with a history of asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this preparation is used !
Comply with the health and safety at work laws.
Smoking, eating and drinking should be prohibited in the application area.

Conditions for safe storage : Keep container tightly closed. Never use pressure to empty: container is not a pressure vessel. No smoking. Prevent unauthorized access.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Technical measures/Precautions : Always keep in containers of same material as the original one. See also instructions on the label. Avoid heating and direct sunlight.
Keep container dry in a cool, well-ventilated place.
Precautions should be taken to minimise exposure to atmospheric humidity or water: CO₂ will be formed which in closed containers can result in pressurisation. **DO NOT KEEP THE CONTAINERS SEALED !!**

Materials to avoid : Keep away from oxidizing agents and strongly acid or alkaline materials.

Recommended storage temperature : 5 - 35 °C

SECTION 8: Exposure controls/personal protection

Ingredients with workplace control parameters

CAS-No.	Ingredients	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
108-65-6	2-methoxy-1-methylethyl acetate	TWA	50 ppm	CA BC OEL

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	2-methoxy-1-methylethyl acetate	STEL	75 ppm	CA BC OEL
	2-methoxy-1-methylethyl acetate	TWAEV	50 ppm 270 mg/m3	CA ON OEL
	2-methoxy-1-methylethyl acetate	TWA	50 ppm	US WEEL
	2-methoxy-1-methylethyl acetate	TWA	50 ppm 270 mg/m3	CA ON OEL
1330-20-7	xylene	TWA	100 ppm	ACGIH
	xylene	STEL	150 ppm	ACGIH
	xylene	TWA	100 ppm 435 mg/m3	OSHA Z-1
	xylene	TWAEV	100 ppm 435 mg/m3	CA ON OEL
	xylene	STEV	150 ppm 650 mg/m3	CA ON OEL
	xylene	TWA	100 ppm 435 mg/m3	OSHA P0
	xylene	STEL	150 ppm 655 mg/m3	OSHA P0
	xylene	TWA	100 ppm 434 mg/m3	CA AB OEL
	xylene	STEL	150 ppm 651 mg/m3	CA AB OEL
	xylene	LMPE-PPT	100 ppm 435 mg/m3	MX OEL
	xylene	LMPE-CT	150 ppm 655 mg/m3	MX OEL
	xylene	TWAEV	100 ppm 434 mg/m3	CA QC OEL
	xylene	STEV	150 ppm 651 mg/m3	CA QC OEL
	xylene	TWA	100 ppm	CA BC OEL
	xylene	STEL	150 ppm	CA BC OEL
	xylene	VLE-PPT	100 ppm	NOM-010-STPS-2014
	xylene	VLE-CT	150 ppm	NOM-010-STPS-2014
100-41-4	ethylbenzene	TWA	100 ppm 434 mg/m3	CA AB OEL
	ethylbenzene	STEL	125 ppm 543 mg/m3	CA AB OEL
	ethylbenzene	TWA	20 ppm	CA BC OEL
	ethylbenzene	STEL	125 ppm	CA BC OEL
	ethylbenzene	TWAEV	100 ppm 435 mg/m3	CA ON OEL
	ethylbenzene	STEV	125 ppm 540 mg/m3	CA ON OEL
	ethylbenzene	TWAEV	100 ppm 434 mg/m3	CA QC OEL
	ethylbenzene	STEV	125 ppm	CA QC OEL



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			543 mg/m3	
	ethylbenzene	LMPE-PPT	100 ppm 435 mg/m3	MX OEL
	ethylbenzene	LMPE-CT	125 ppm 545 mg/m3	MX OEL
	ethylbenzene	TWA	20 ppm	ACGIH
	ethylbenzene	STEL	125 ppm	ACGIH
	ethylbenzene	TWA	100 ppm 435 mg/m3	OSHA Z-1
	ethylbenzene	TWA	100 ppm 435 mg/m3	OSHA P0
	ethylbenzene	STEL	125 ppm 545 mg/m3	OSHA P0
	ethylbenzene	VLE-PPT	20 ppm	NOM-010-STPS-2014
	ethylbenzene	TWA	100 ppm 435 mg/m3	NIOSH REL
	ethylbenzene	ST	125 ppm 545 mg/m3	NIOSH REL
822-06-0	hexamethylene diisocyanate		0.005 ml/m3	ACGIH
	hexamethylene diisocyanate	TWA	0.005 ppm 0.03 mg/m3	CA AB OEL
	hexamethylene diisocyanate	TWA	0.005 ppm	CA BC OEL
	hexamethylene diisocyanate	C	0.01 ppm	CA BC OEL
	hexamethylene diisocyanate	TWA	0.005 ppm	CA ON OEL
	hexamethylene diisocyanate	C	0.02 ppm	CA ON OEL
	hexamethylene diisocyanate	TWAEV	0.005 ppm 0.034 mg/m3	CA QC OEL
	hexamethylene diisocyanate	VLE-PPT	0.005 ppm	NOM-010-STPS-2014
	hexamethylene diisocyanate	TWA	0.005 ppm	ACGIH
	hexamethylene diisocyanate	TWA	0.005 ppm 0.035 mg/m3	NIOSH REL
	hexamethylene diisocyanate	C	0.02 ppm 0.14 mg/m3	NIOSH REL

Hazardous components without workplace control parameters

CAS-No.	Ingredients
28182-81-2	20-37-43 - Hexamethyle n-1,6-diisocyanat Homopolyme r

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Biological occupational exposure limits

Ingredients	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
ethylbenzene	100-41-4	Sum of Mandelic acid plus phenylglyoxylic acid	Urine	End of shift at end of workweek	0.7 g/g creatinine	MX BEI
		Sum of mandelic acid and phenylglyoxylic acid	Urine	End of shift (As soon as possible after exposure ceases)	0.15 g/g creatinine	ACGIH BEI
hexamethylene diisocyanate	822-06-0	1,6-Hexamethylene diamine	Urine	End of shift	15 µg/g creatinine	ACGIH BEI

Engineering measures : Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and below the OEL (= Occupational Exposure Limit), suitable respiratory protection must be worn.

Personal protective equipment

Respiratory protection : By spraying: air-fed respirator(MHSA/NIOSH approved)

By other operations than spraying: in well ventilated areas, air-fed respirators could be replaced by a combination of charcoal filter and particulate filter mask(it should be MHSA/NIOSH approved).

Hand protection

Remarks : Glove permeation data does not exist for this material. The following glove(s) should be used for splash protection only:
Appropriate material: nitrile

Eye protection : Use safety glasses or face shield (ANSI Z87.1 or approved equivalent).

Skin and body protection : Personal should wear protective clothing as necessary to prevent skin contact. All parts of the body should be washed after contact.

Protective measures : Persons with a history of asthma, allergies, chronic or recurrent respiratory disease should not be employed in any



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process in which this preparation is used.
Do not eat or drink during work - no smoking.
Avoid product contact with skin, eyes and clothing.
Avoid the inhalation of dust from sanding, particulates and
spray mist arising from the application of this preparation.

SECTION 9: Physical and chemical properties

Appearance	: liquid
Color	: according product name
Odor	: characteristic
Boiling point/boiling range	: ca. 212 °F (100 °C)
Flash point	: 140 °F (60 °C) Method: ISO 2719
Upper explosion limit	: No data available
Lower explosion limit	: No data available
Vapor pressure	: ca. 100 hPa 122 °F (50 °C)
Density	: ca. 1.10 g/cm3 68 °F (20 °C)
Solubility(ies)	
Water solubility	: insoluble
Autoignition temperature	: > 392 °F (> 200 °C)
Viscosity	
Viscosity, kinematic	: 21 mm2/s 104 °F (40 °C) 267 mm2/s 73 °F (23 °C)
Flow time	: ca. 60 s Cross section: 4 mm Method: DIN 53211 41 s Cross section: 6 mm Method: ISO 2431



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SECTION 10: Stability and reactivity

Reactivity	: No decomposition if stored and applied as directed.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No dangerous reaction known under conditions of normal use.
Conditions to avoid	: Stable under recommended storage and handling conditions (See section 7).
Incompatible materials	: Keep away from oxidizing agents, strongly alkaline and strongly acidic materials in order to avoid exothermic reactions. The product reacts slowly with water resulting in evolution of carbon dioxide. In closed containers, pressure build up could result distortion blowing and in extreme cases bursting of the container.
Hazardous decomposition products	: In a fire, hazardous decomposition products, such as smoke, carbon monoxide, carbon dioxide, oxides of nitrogen, hydrogen cyanide, monomers of isocyanates, amines and alcohols may be produced.

SECTION 11: Toxicological information

Acute toxicity

Product:

Acute oral toxicity	: Acute toxicity estimate: > 5,000 mg/kg Method: Calculation method
Acute inhalation toxicity	: Acute toxicity estimate: 2.13 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method

Assessment: The substance/mixture is not toxic on inhalation as defined by dangerous goods regulations.

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

28182-81-2:

Acute inhalation toxicity	: LC50 (Rat, female): 390 mg/l Exposure time: 4 h
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Test atmosphere: dust/mist
Method: OECD Test Guideline 403

Assessment: The substance/mixture is not toxic on inhalation as defined by dangerous goods regulations.

1330-20-7:

Acute oral toxicity : LD50 (Rat): 4,300 mg/kg

Respiratory or skin sensitization

Ingredients:

28182-81-2:

Species: Mouse
Assessment: May cause sensitization by skin contact.
Method: OECD Test Guideline 406

Carcinogenicity

IARC

Group 2B: Possibly carcinogenic to humans

100-41-4

Ethylbenzol

OSHA

No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP

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

Further information

Product:

Remarks: Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin.

The liquid splashed in the eyes may cause irritation and reversible damage.

Based on the properties of the isocyanate components and considering toxicological data on similar preparations: This preparation may cause acute irritation and/or sensitization of the respiratory system leading to an asthmatic condition, wheeziness and a tightness of the chest. Sensitized persons may subsequently show asthmatic symptoms when exposed to atmospheric concentrations well below the OEL. Repeated exposure may lead to permanent respiratory disability.

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SECTION 12: Ecological information

Ecotoxicity

Product:

Ecotoxicology Assessment

Acute aquatic toxicity : There are no data available on the preparation itself.

Persistence and degradability

Product:

Biodegradability : Remarks: There are no data available on the preparation itself.

Bioaccumulative potential

Product:

Bioaccumulation : Remarks: There are no data available on the preparation itself.

Mobility in soil

Product:

Mobility : Remarks: There are no data available on the preparation itself.

Other adverse effects

Product:

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82
Protection of Stratospheric Ozone - CAA Section 602 Class I Substances
Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

Additional ecological information : There are no data available on the preparation itself.

The product should not be allowed to enter drains or water courses.

SECTION 13: Disposal considerations

Disposal methods

Waste from residues : Dispose of in accordance with local regulations.

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Contaminated packaging : Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse. Packaging that cannot be cleaned should be disposed off in agreement with the regional waste disposal company.

SECTION 14: Transport information

International Regulation

IATA-DGR

UN/ID No. : UN 1263
Proper shipping name : PAINT RELATED MATERIAL
Class : 3
Packing group : III
Labels : Flammable Liquids
Packing instruction (cargo aircraft) : 366
Packing instruction (passenger aircraft) : 355

IMDG-Code

UN number : UN 1263
Proper shipping name : PAINT RELATED MATERIAL
Class : 3
Packing group : III
Labels : 3
EmS Code : F-E, S-E
Marine pollutant : no

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

Not applicable for product as supplied.

Domestic regulation

49 CFR

UN/ID/NA number : UN 1263
Proper shipping name : PAINT RELATED MATERIAL
Class : 3
Packing group : III
Labels : FLAMMABLE LIQUID
Marine pollutant : no

SECTION 15: Regulatory information

EPCRA - Emergency Planning and Community Right-to-Know

SARA 311/312 Hazards : Fire Hazard
Acute Health Hazard
Chronic Health Hazard
Fire Hazard

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Acute Health Hazard
Chronic Health Hazard

SARA 302 : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 : The following components are subject to reporting levels established by SARA Title III, Section 313:

1330-20-7	xylene	2.04 %
100-41-4	ethylbenzene	0.51 %

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 12 (40 CFR 61):

1330-20-7	xylene	2.04 %
100-41-4	ethylbenzene	0.51 %
822-06-0	hexamethylene diisocyanate	0.1632 %

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCM Intermediate or Final VOC's (40 CFR 60.489):

1330-20-7	xylene	2.04 %
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Clean Water Act

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

1330-20-7	xylene	2.04 %
100-41-4	ethylbenzene	0.51 %

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

1330-20-7	xylene	2.04 %
100-41-4	ethylbenzene	0.51 %

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

California Prop. 65 WARNING! This product contains a chemical known in the State of California to cause cancer.

100-41-4	ethylbenzene
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California Permissible Exposure Limits for Chemical Contaminants

108-65-6	2-methoxy-1-methylethyl acetate
1330-20-7	xylene

US Federal Regulations

Volatile organic compounds : 1.8 lb/gal (0.2 g/cm3)
(VOC) content

For the calculation of VOC values in this section all substances have been considered which fall under the definition of VOC according to 40 CFR 51.100. Additionally, the calculation complies with the requirements of SCAQMD Rule 1106.1, amended February 12, 1999.

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

Mankiewicz Gebr. & Co. (GmbH & Co. KG) Georg-Wilhelm-Straße 189 21107 Hamburg (Wilhelmsburg) Tel.: +49 (0) 40 / 75 10 30 Fax: +49 (0) 40 / 75 10 33 75 www.mankiewicz.de	Bank Name Deutsche Bank HypoVereinsbank Postbank	Ort Hamburg Hamburg Hamburg	Kto.-Nr. 600227300 59273300 373205	BLZ 200 700 00 200 300 00 200 100 20	BIC DEUTDE33XXX HYVEDE33XXX PBNKDE33XXX	IBAN DE58 2007 0000 0600 2273 00 DE34 2003 0000 0059 2733 00 DE85 2001 0020 0000 3732 05	Sitz/Registriergericht Hamburg: HRA 42442 Persönlich haftende Gesellschafterin: Grau Gebr. Beteiligungs-GmbH Sitz/Registriergericht Hamburg: HRB 17189 Geschäftsführender Gesellschafter: Michael O. Grau	Bureau Veritas Certification: ISO 9001, TS 16949, EN 9100	
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TSCA : All chemical substances in this product are either listed on the TSCA Inventory or are in compliance with a TSCA Inventory exemption.

TSCA list

No substances are subject to a Significant New Use Rule.

The following substance(s) is/are subject to TSCA 12(b) export notification requirements:

111109-77-4

Dipropylenglykoldimethylether

Canadian lists

No substances are subject to a Significant New Activity Notification.

SECTION 16: Other information

Full text of other abbreviations

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 - 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



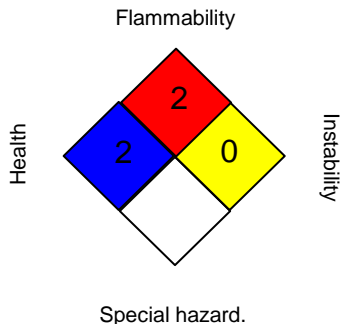
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Further information

NFPA:



HMIS III:

HEALTH	2*
FLAMMABILITY	2
PHYSICAL HAZARD	0

0 = not significant, 1 =Slight,
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

Health
0=Slightly HazardousSlightly Hazardous
2=Hazardous
3=Extreme danger
4=Deadly

Flammability
0=Will not burn
2=Flashpoint below 200 °F
3=Flashpoint below 100 °F
4=Flashpoint below 73 °F

Instability
0=Stable
1=Unstable if heated
2=Violent chemical reaction; water reactive
3=Shock or heat may detonate
4=May detonate

Special hazard.
SA Simple Asphyxiant
ACID Acid
OX Oxidizer
W Water Reactive
CORR Corrosive

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