

Commercial Product Name: ALEXIT-FST Strukturlack 346-65/topcoat

Product No.: 346657A007000

Version **Revision Date:** SDS Number: Date of last issue: 04/18/2019 1.7 09/21/2019 F-346657A007 Date of first issue: 03/15/2016

#### **SECTION 1. IDENTIFICATION**

Product name : ALEXIT-FST Strukturlack 346-65/topcoat 7A00 light grey

semi-gloss

Product number 346657A007000

Manufacturer or supplier's details

Manufacturer, importer, Mankiewicz Coatings L.L.C

supplier

Address 1200 Charleston Regional Parkway

Charleston, South Carolina 29492

USA

Telephone +1 (843) 6547755 Telefax +1 (843) 6547759 E-mail address sdb\_info@umco.de

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

Recommended use of the chemical and restrictions on use

Recommended use : Industrial serial painting

# **SECTION 2. HAZARDS IDENTIFICATION**

## GHS classification in accordance with 29 CFR 1910.1200

Not a hazardous substance or mixture.

**GHS** label elements

Not a hazardous substance or mixture.

Other hazards

None known.

# **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical nature Mixture of synthetic resins, water and pigments

## Components

Chemical name	CAS-No.	Concentration (% w/w)
titanium dioxide	13463-67-7	>= 12.5 - < 20
2-butoxyethanol	111-76-2	>= 1 - < 5
POLYETHER	Not Assigned	>= 1 - < 5

Actual concentration is withheld as a trade secret





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#### **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!

Remove contact lenses, irrigate copiously with clean, fresh In case of eye contact

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.

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.

No information available. Notes to physician

#### **SECTION 5. FIRE-FIGHTING 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.



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#### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protec- : tive equipment and emer-

gency 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.

**Environmental precautions** Do not let product enter drains.

If the product contaminates lakes, rivers or sewage, inform appropriate authorities in accordance with local regulations.

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

Keep away from ignition sources and provide for good

ventilation.

Advice on safe handling Comply with the health and safety at work laws.

> In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been

excluded.

Smoking, eating and drinking should be prohibited in the

application area.

Observe specific national regulations for handling and use of

Conditions for safe storage Keep container tightly closed. Never use pressure to empty:

container isnot a pressure vessel. No smoking. Prevent

unauthorized access.

Containers which are opened must be carefully resealed and

kept upright to prevent leakage.

Further information on stor-

age conditions

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.

Avoid cooling to under 32°F.

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

materials.

Recommended storage tem-

perature

41 - 95 °F / 5 - 35 °C





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# **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

# Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis				
titanium dioxide	13463-67-7	TWA	10 mg/m3	CR OEL				
		Further information: Not classifiable as a human carcinogen, Lower Respiratory Tract irritation						
		TWA	10 mg/m3	CA AB OEL				
		TWA (Total dust)	10 mg/m3	CA BC OEL				
		TWA (respirable dust fraction)	3 mg/m3	CA BC OEL				
		TWAEV (to- tal dust)	10 mg/m3	CA QC OEL				
		VLE-PPT	10 mg/m3	NOM-010- STPS-2014				
		TWA (total dust)	15 mg/m3	OSHA Z-1				
		TWA (Total dust)	10 mg/m3	OSHA P0				
2-butoxyethanol	111-76-2	TWA	20 ppm	CR OEL				
	which there is	Further information: Confirmed animal carcinogen, Substances for which there is a Biological Exposure Index or Indices (see BEI section), Eye irritation, Upper Respiratory Tract irritation						
		TWA	20 ppm 97 mg/m3	CA AB OEL				
		TWA	20 ppm	CA BC OEL				
		TWAEV	20 ppm 97 mg/m3	CA QC OEL				
		VLE-PPT	20 ppm	NOM-010- STPS-2014				
		TWA	20 ppm	ACGIH				
		TWA	5 ppm 24 mg/m3	NIOSH REL				
		TWA	50 ppm 240 mg/m3	OSHA Z-1				
		TWA	25 ppm 120 mg/m3	OSHA P0				

# **Biological occupational exposure limits**

Components	CAS-No.	Control	Biological	Sam-	Permissible	Basis
		parameters	specimen	pling	concentra-	
				time	tion	





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2-butoxyethanol	111-76-2	Butoxyaceti c acid (BAA)	Urine	End of shift	200 mg/g Creatinine	MX BEI
		Butoxyaceti c acid (BAA)	Urine	End of shift (As soon as possible after exposure ceases)	200 mg/g Creatinine	ACGIH BEI
		Butoxyaceti c acid (BAA)	Urine	End of shift	200 mg/g Creatinine	CR BEI

**Engineering measures** 

Provide adequate ventilation. Where reasonably practicable this shoud 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

If workers are exposed to concentrations above the exposure limit they must use appropriate, certified respirators: Use MSHA/NIOSH approved respirator if concentration

exceeds recommended exposure levels.

Dry grinding, torch cutting and/or welding however can

produce hazardous dust and/or vapor.

If possible, machine employing a wet medium.

Where practicable, install exhaust hoods to improve capture of vapors and fumes and avoid exposition; otherwise wear

respiratory protection equipment.

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

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

equivalent).

Personal should wear protective clothing as necessary to Skin and body protection

prevent skin contact. All parts of the body should be washed

after contact.

Protective measures Do not eat or drink during work - no smoking.

Avoid product contact with skin, eyes and clothing.



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> When operators, whether spraying or not, have to work inside the spray booth, ventilation is unlikely to be sufficient to control particulates and solvent vapor in all cases. In such circumstances they should wear a compressed air-fed respirator during the spraying process until such time as the particulates and solvent vapor concentration has fallen below the exposure limits.

# **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 Not applicable

Upper explosion limit / Upper

flammability limit

No data available

Lower explosion limit / Lower

flammability limit

No data available

Vapor pressure ca. 100 hPa (122 °F / 50 °C)

Density ca. 12.10 lb/gal (1.45 g/cm3)

(68 °F / 20 °C)

Solubility(ies)

Water solubility completely miscible

Autoignition temperature > 572 °F / > 300 °C

Viscosity

21 mm2/s (104 °F / 40 °C) Viscosity, kinematic

684 mm2/s (73 °F / 23 °C)

Flow time > 150 s

> Cross section: 4 mm Method: DIN 53211

> 100 s





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> Cross section: 6 mm Method: ISO 2431

#### **SECTION 10. STABILITY AND REACTIVITY**

Reactivity No decomposition if stored and applied as directed.

Chemical stability Stable under normal conditions.

Possibility of hazardous reac-

tions

No dangerous reaction known under conditions of normal use.

There are no data available on the preparation itself.

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.

Hazardous decomposition

products

When exposed to high temperatures may produce hazardous

decomposition products such as carbon monoxide and diox-

ide, smoke, oxides of nitrogen.

## 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: > 200 mg/l

> Exposure time: 4 h Test atmosphere: vapor Method: Calculation method

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

Method: Calculation method

# **Components:**

2-butoxyethanol:

Acute oral toxicity LD50 (Rat): 1,300 mg/kg

Acute dermal toxicity LD50 (Rabbit): > 400 - 2,000 mg/kg

## Carcinogenicity



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**IARC** No ingredient 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 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 Exposure of vapor concentration in excess of the stated OEL's

may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue muscular weakness, drowsiness and in extrem cases, loss of consciousness. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in nonallergic contact dermatitis and absorption through the skin. The liquid splashed in the eyes may cause irritation and re-

versible damage.

## **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 it-

self.

## Bioaccumulative potential

#### **Product:**

Bioaccumulation Remarks: There are no data available on the preparation it-

## Mobility in soil

# Product:





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Mobility Remarks: There are no data available on the preparation it-

#### Other adverse effects

## **Product:**

Ozone-Depletion Potential Regulation: 40 CFR Protection of Environment; Part 82 Pro-

tection 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 infor-

mation

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.

## **SECTION 14. TRANSPORT INFORMATION**

## International Regulations

#### **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.

# **Domestic regulation**

#### **49 CFR**

Not regulated as a dangerous good

## **SECTION 15. REGULATORY INFORMATION**

# **EPCRA - Emergency Planning and Community Right-to-Know**

#### SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

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





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SARA 311/312 Hazards Acute Health Hazard

> Chronic Health Hazard No SARA Hazards

**SARA 313** The following components are subject to reporting levels

established by SARA Title III, Section 313:

2-butoxyethanol 111-76-2 >= 1 - < 5 %

2-(2-112-34-5 < 0.1 %

butoxyethoxy)ethanol

#### 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).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

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).

> 2-butoxyethanol 111-76-2 >= 1 - < 5 %

# **Clean Water Act**

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

> ammonia, aqueous solu- 1336-21-6 >= 0 - < 0.1 %

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

> ammonia, aqueous solu- 1336-21-6 >= 0 - < 0.1 %

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

# **US State Regulations**

# **Massachusetts Right To Know**

2-butoxyethanol 111-76-2

Pennsylvania Right To Know

2-butoxvethanol 111-76-2 Distillates (petroleum), hydrotreated heavy paraffinic 64742-54-7

#### **Maine Chemicals of High Concern**

Product does not contain any listed chemicals

## **Vermont Chemicals of High Concern**

Product does not contain any listed chemicals

## **Washington Chemicals of High Concern**



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Product does not contain any listed chemicals

# California Prop. 65

WARNING: This product can expose you to chemicals including Distillates (petroleum), hydrotreated heavy paraffinic, which is/are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

#### **California List of Hazardous Substances**

2-butoxyethanol 111-76-2

# **California Permissible Exposure Limits for Chemical Contaminants**

titanium dioxide 13463-67-7 2-butoxyethanol 111-76-2

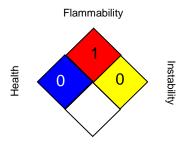
## The ingredients of this product are reported in the following inventories:

: All substances listed as active on the TSCA inventory

#### **SECTION 16. OTHER INFORMATION**

#### **Further information**

#### NFPA 704:



Special hazard

#### HMIS® IV:



HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "\*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

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



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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

#### Full text of other abbreviations

**ACGIH** USA. ACGIH Threshold Limit Values (TLV) ACGIH - Biological Exposure Indices (BEI) **ACGIH BEI** 

CA AB OEL Canada. Alberta, Occupational Health and Safety Code (table

2: OEL)

CA BC OEL Canada. British Columbia OEL

CA QC OEL Québec. Regulation respecting occupational health and safe-

ty, Schedule 1, Part 1: Permissible exposure values for air-

borne contaminants

CR BEI Maximum allowable occupational exposure limits in the work-

place - Table 3. Adopted Biological Exposure Indices

CR OEL Costa Rica. Maximum allowable occupational exposure limits

in the workplace.

Official Mexican Norm NOM-047-SSA1-2011, Environmental MX BEI

Health - Biological exposure indices for workers occupational-

ly exposed to chemical agents

USA. NIOSH Recommended Exposure Limits NIOSH REL

Mexico. Norm NOM-010-STPS-2014 on Chemicals Polluting NOM-010-STPS-2014

the Work Environment - Identification, Assessment and Con-

trol - Appendix 1 Occupational Exposure Limits

OSHA PO USA. OSHA - TABLE Z-1 Limits for Air Contaminants -

1910.1000

OSHA Z-1 USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim-

its for Air Contaminants

ACGIH / TWA 8-hour, time-weighted average CA AB OEL / TWA 8-hour Occupational exposure limit CA BC OEL / TWA 8-hour time weighted average

CA QC OEL / TWAEV Time-weighted average exposure value CR OEL / TWA Time weighted average 8-hr value

NIOSH REL / TWA Time-weighted average concentration for up to a 10-hour

workday during a 40-hour workweek

NOM-010-STPS-2014 / VLE- : Time weighted average limit value

PPT

OSHA P0 / TWA 8-hour time weighted average 8-hour time weighted average OSHA Z-1 / TWA

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 Haz-



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ardous 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

**Revision Date** 09/21/2019

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

US / Z8



Commercial Product Name: ALEXIT-Härter / Hardener 345-19

Product No.: 3451900000000

Version **Revision Date:** SDS Number: Date of last issue: 01/24/2019 02/14/2019 F-3451900000 Date of first issue: 06/16/2015 1.18

## **SECTION 1. IDENTIFICATION**

Product name ALEXIT-Härter / Hardener 345-19 farblos / transparent

Product number : 3451900000000

Manufacturer or supplier's details

Manufacturer, importer,

supplier

Mankiewicz Coatings L.L.C

Address 1200 Charleston Regional Parkway

Charleston, South Carolina 29492

**USA** 

Telephone +1 (843) 6547755 Telefax +1 (843) 6547759 E-mail address sdb info@umco.de

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

Recommended use of the chemical and restrictions on use

Recommended use Industrial serial painting

## **SECTION 2. HAZARDS IDENTIFICATION**

GHS classification in accordance with 29 CFR 1910.1200

Flammable liquids Category 4

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** H227 Combustible liquid.

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.

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 protec-

tion.

#### Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and water. 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 alco-

hol-resistant foam to extinguish.

#### 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 dis-





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posal plant.

#### Other hazards

None known.

#### **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical nature Hardener based on polyisocyanates

## Components

Chemical name	CAS-No.	Concentration (% w/w)
Hexamethylene diisocyanate, oligo-	28182-81-2	>= 40 - <= 100
mers		
aliphatic polyisocyanate, hydrophilic	191427-71-1	>= 5 - < 12.5
2-methoxy-1-methylethyl acetate	108-65-6	>= 1 - < 5
xylenes	1330-20-7	>= 1 - < 5
ethylbenzene	100-41-4	>= 0.5 - < 1
hexamethylene diisocyanate	822-06-0	>= 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!

Remove contact lenses, irrigate copiously with clean, fresh In case of eye contact

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.

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.

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 Kto.-Nr.
 BLZ
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 Hamburg
 600227300
 200 700 00
 DEUTDEHHXXX
 DE58 2007 0000 0600 2273 00
 Persönlich haftende Gesellschafterin:

 Hamburg
 59273300
 200 300 00
 HVVEDEMM300
 DE34 2003 0000 0059 2733 00
 Grau Gebr. Beteiligungs-GmbH

 Hamburg
 373205
 200 100 20
 PBNKDEFF200
 DE85 2001 0020 0000 3732 05
 Sitz/Registergericht Hamburg: HRA 42442

 Geschäftsführender Gesellschafter:
 Michael O. Grau
 Michael O. Grau





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#### **SECTION 5. FIRE-FIGHTING 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, protec- : tive equipment and emer-

gency 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.%

Do not let product enter drains. **Environmental precautions** 

> 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.

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 : The product should only be used in areas from which all fire and explosion naked lights and other sources of ignition have been



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excluded.

Preparation may charge electrostatically: always use earthing leads whentransferring from one container to another. Operators should wear anti-static footwear and clothing. No sparking tools should be used.

Vapors are heavier than air and may spread along floors.

Vapors may form explosive mixtures with air.

Persons with a history of asthma, allergies, chronic or Advice on safe handling

recurrent respiratory disease should not be employed in any

process in which this preparation is used!

Prevent the creation of flammable or explosive concentrations of vapor in air and avoid vapor concentrations higher than the

occupational exposure limits.

Comply with the health and safety at work laws.

Smoking, eating and drinking should be prohibited in the

application area.

Conditions for safe storage Electrical equipment should be protected to the appropriate

standard. Floors should be of the conducting type.

Keep container tightly closed. Never use pressure to empty: container isnot a pressure vessel. No smoking. Prevent

unauthorized access.

Containers which are opened must be carefully resealed and

kept upright to prevent leakage.

Further information on stor-

age conditions

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 humidityor 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 tem-

perature

41 - 95 °F / 5 - 35 °C

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
2-methoxy-1-methylethyl acetate	108-65-6	TWA	50 ppm	CA BC OEL
		STEL	75 ppm	CA BC OEL
		TWA	50 ppm 270 mg/m3	CA ON OEL



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		TWA	50 ppm	US WEEL
xylenes	1330-20-7	VLE-PPT	100 ppm	NOM-010-
			''	STPS-2014
		VLE-CT	150 ppm	NOM-010-
			''	STPS-2014
		TWA	100 ppm	OSHA Z-1
			435 mg/m3	
		TWA	100 ppm	ACGIH
		STEL	150 ppm	ACGIH
		STEL	150 ppm	CA AB OEL
			651 mg/m3	071712 022
		TWA	100 ppm	CA AB OEL
		1	434 mg/m3	071712 022
		TWAEV	100 ppm	CA QC OEL
		' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	434 mg/m3	O/ QO OLL
		STEV	150 ppm	CA QC OEL
		012	651 mg/m3	OA QU OLL
		TWA	100 ppm	CA BC OEL
	+	STEL		CA BC OEL
		STEL	150 ppm	OSHA P0
		SIEL	150 ppm	OSHA PU
		T14/4	655 mg/m3	OCUA DO
		TWA	100 ppm	OSHA P0
4. 11	100 11 1	T14/4	435 mg/m3	04.45.051
ethylbenzene	100-41-4	TWA	100 ppm	CA AB OEL
		0.751	434 mg/m3	04.45.05
		STEL	125 ppm	CA AB OEL
		<del> </del>	543 mg/m3	0.5005
		TWA	20 ppm	CA BC OEL
		STEV	125 ppm	CA QC OEL
			543 mg/m3	
		TWAEV	100 ppm	CA QC OEL
			434 mg/m3	
		VLE-PPT	20 ppm	NOM-010-
				STPS-2014
		TWA	20 ppm	ACGIH
		TWA	100 ppm	NIOSH REL
			435 mg/m3	
		ST	125 ppm	NIOSH REL
			545 mg/m3	
		TWA	100 ppm	OSHA Z-1
			435 mg/m3	
		TWA	100 ppm	OSHA P0
			435 mg/m3	
		STEL	125 ppm	OSHA P0
			545 mg/m3	
hexamethylene diisocyanate	822-06-0		0.005 ml/m3	ACGIH
		TWA	0.005 ppm	CA AB OEL
			0.03 mg/m3	
		TWA	0.005 ppm	CA BC OEL
		С	0.01 ppm	CA BC OEL
		TWA	0.005 ppm	CA ON OEL
	1	С	0.02 ppm	CA ON OEL



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TWAEV	0.005 ppm 0.034 mg/m3	CA QC OEL
VLE-PPT	0.005 ppm	NOM-010- STPS-2014
TWA	0.005 ppm	ACGIH
TWA	0.005 ppm 0.035 mg/m3	NIOSH REL
С	0.02 ppm 0.14 mg/m3	NIOSH REL

# **Biological occupational exposure limits**

Components	CAS-No.	Control parameters	Biological specimen	Sam- pling time	Permissible concentration	Basis
xylenes	1330-20-7	Methyl- hippuric acids	Urine	End of shift (As soon as possible after exposure ceases)	1.5 g/g creatinine	ACGIH BEI
		Methyl- hippuric acid	Urine	End of shift	1.5 g/g cre- atinine	MX BEI
ethylbenzene	100-41-4	Sum of Mandelic acid plus phenylgly- oxylic acid	Urine	End of shift at end of work- week	0.7 g/g creatinine	MX BEI
		Sum of mandelic acid and phenyl gly- oxylic acid	Urine	End of shift (As soon as possible after exposure ceases)	0.15 g/g creatinine	ACGIH BEI
hexamethylene diisocy- anate	822-06-0	1,6- Hexamethy- lene diami- ne	Urine	End of shift	15 μg/g creatinine	ACGIH BEI

**Engineering measures** 

Provide adequate ventilation. Where reasonably practicable this shoud 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

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 Sitz/Registergericht Hamburg: HRA 42442

 Deutsche Barik HypoVereinsbank
 Hamburg 600227300
 200 700 00
 DEUTDEHHOXX
 DE58 2007 0000 0600 2273 00
 Persönlich haftende Gesellschafterin:

 HypoVereinsbank
 Hamburg 59273300
 200 300 00
 HVPEDEMM300
 DE34 2003 0000 0059 2733 00
 Grau Gehr Beteiligungs-GmbH

 Hamburg 373205
 200 100 20
 PBNKDEFF200
 DE85 2001 0020 0000 3732 05
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 Geschäftsführender Gesellschafter:
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areas, air-fed respirators could be replaced by a combination

of charcoal filter and particulate filter mask(it should be

MHSA/NIOSH approved).

Use MSHA/NIOSH approved respirator if concentration

exceeds recommended exposure levels.

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:

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

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

176.9 °F / 80.5 °C Flash point

Method: ISO 13736

Upper explosion limit / Upper

flammability limit

10.0 %(V)

Lower explosion limit / Lower

flammability limit

1.0 %(V)

Vapor pressure ca. 100 hPa (122 °F / 50 °C)

ca. 9.18 lb/gal (1.10 g/cm3) Density

(68 °F / 20 °C)



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Solubility(ies)

Water solubility insoluble

Autoignition temperature > 752 °F / > 400 °C

Viscosity

Viscosity, kinematic 21 mm2/s (104 °F / 40 °C)

171 mm2/s (73 °F / 23 °C)

Flow time

Cross section: 4 mm Method: DIN 53211

30 s

Cross section: 6 mm Method: ISO 2431

#### **SECTION 10. STABILITY AND REACTIVITY**

Reactivity No decomposition if stored and applied as directed.

Chemical stability Stable under normal conditions.

Possibility of hazardous reac-

tions

No dangerous reaction known under conditions of normal use.

There are no data available on the preparation itself.

Conditions to avoid Stable under recommended storage and handling conditions

(See section 7).

Keep away from oxidizing agents, strongly alkaline and Incompatible materials

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 dioxiode, oxides of nitrogen, hydro-

gen cyanide, monomers of isocyanates, amines and alcohols

may be produced.

#### **SECTION 11. TOXICOLOGICAL INFORMATION**

#### **Acute toxicity**

**Product:** 

Acute toxicity estimate: > 5,000 mg/kg Acute oral toxicity

Method: Calculation method



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Acute inhalation toxicity Assessment: The substance/mixture is not toxic on inhalation

as defined by dangerous goods regulations.

Assessment: The substance/mixture is not toxic on inhalation

as defined by dangerous goods regulations.

Acute toxicity estimate: 2.13 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist Method: Calculation method

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

Method: Calculation method

# **Components:**

# Hexamethylene diisocyanate, oligomers:

Acute inhalation toxicity LC50 (Rat, male and female): 0.543 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Method: OECD Test Guideline 403

xylenes:

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

#### Respiratory or skin sensitization

# **Components:**

## Hexamethylene diisocyanate, oligomers:

**Species** 

Assessment May cause sensitization by skin contact.

Method **OECD Test Guideline 406** 

#### Carcinogenicity

**IARC** Group 2B: Possibly carcinogenic to humans

ethylbenzene 100-41-4

**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 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 Exposure of vapor concentration in excess of the stated OEL's

may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on kidney, liver and central nervous system. Symptoms and signs



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> include headache, dizziness, fatigue muscular weakness, drowsiness and in extrem cases, loss of consciousness. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in nonallergic 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 thightness 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.

#### **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 it-

self.

## Bioaccumulative potential

**Product:** 

Bioaccumulation Remarks: There are no data available on the preparation it-

self.

Mobility in soil

**Product:** 

Mobility Remarks: There are no data available on the preparation it-

self.

# Other adverse effects

**Product:** 

Ozone-Depletion Potential Regulation: 40 CFR Protection of Environment; Part 82 Pro-

tection of Stratospheric Ozone - CAA Section 602 Class I

Substances

Remarks: This product neither contains, nor was manufac-



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> tured 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 infor-

mation

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.

#### **SECTION 14. TRANSPORT INFORMATION**

#### International Regulations

#### 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.

#### **Domestic regulation**

**49 CFR** 

UN/ID/NA number NA 1993

Proper shipping name Combustible Liquid, n.o.s

(2-methoxy-1-methylethyl acetate, Xylene)

Class 3 Packing group Ш

FLAMMABLE LIQUID Labels

Marine pollutant no

Remarks Above applies only to containers over 119 gallons or 450 li-

ters. Not regulated if shipped in packages less than or equal

to 119 gallons (450 liters).

## 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.



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#### **SECTION 15. REGULATORY INFORMATION**

#### **EPCRA - Emergency Planning and Community Right-to-Know**

## 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 Fire Hazard

> Acute Health Hazard Chronic Health Hazard

Flammable (gases, aerosols, liquids, or solids)

Acute toxicity (any route of exposure) Respiratory or skin sensitization

Carcinogenicity

Specific target organ toxicity (single or repeated exposure)

**SARA 313** The following components are subject to reporting levels

established by SARA Title III, Section 313:

xylenes 1330-20-7 >= 1 - < 5 %

>= 0.1 - < 1 % ethylbenzene 100-41-4

## 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):

xylenes 1330-20-7 >= 1 - < 5 % >= 0.1 - < 1 % ethylbenzene 100-41-4 hexamethylene diisocya-822-06-0 >= 0.1 - < 1 %

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 SOCMI Intermediate or Final VOC's (40 CFR 60.489):

> xylenes 1330-20-7 >= 1 - < 5 %

VOC content excluding water

## **Clean Water Act**

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

> xylenes 1330-20-7 >= 1 - < 5 % ethylbenzene 100-41-4 >= 0.1 - < 1 %

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

> 1330-20-7 xylenes >= 1 - < 5 % ethylbenzene 100-41-4 >= 0.1 - < 1 %

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



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HypoVereinsbank
Postbank
Postbank
Deutsche Bank
Hamburg
Deutsche Bank
HypoVereinsbank
Hamburg
Deutsche Bank
Deutsche B





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#### **US State Regulations**

# Massachusetts Right To Know

xylenes 1330-20-7 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate 4098-71-9

# Pennsylvania Right To Know

xylenes 1330-20-7 ethylbenzene 100-41-4 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate 4098-71-9

# **Maine Chemicals of High Concern**

Product does not contain any listed chemicals

# **Vermont Chemicals of High Concern**

ethylbenzene 100-41-4

# **Washington Chemicals of High Concern**

ethylbenzene 100-41-4

## California Prop. 65

WARNING: This product can expose you to chemicals including ethylbenzene, which is/are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

#### California List of Hazardous Substances

1330-20-7 xylenes

## **California Permissible Exposure Limits for Chemical Contaminants**

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

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

**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**

The following substance(s) is/are subject to a Significant New Use Rule: Dipropylenglykoldimethylether 111109-77-4



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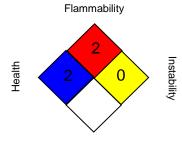
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#### **SECTION 16. OTHER INFORMATION**

#### **Further information**

#### NFPA 704:



Special hazard.

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

#### Full text of other abbreviations

**ACGIH** USA, ACGIH Threshold Limit Values (TLV) **ACGIH BEI** ACGIH - Biological Exposure Indices (BEI)

CA AB OEL Canada. Alberta, Occupational Health and Safety Code (table

2: OEL)

CA BC OEL Canada. British Columbia OEL

CA ON OEL Ontario Table of Occupational Exposure Limits made under

the Occupational Health and Safety Act.

ty, Schedule 1, Part 1: Permissible exposure values for air-

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## HMIS® IV:

HEALTH	*	2
FLAMMABILITY		2
PHYSICAL HAZARD		0

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "\*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

CA QC OEL Québec. Regulation respecting occupational health and safe-

borne contaminants



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MX BEI Official Mexican Norm NOM-047-SSA1-2011, Environmental

Health - Biological exposure indices for workers occupational-

ly exposed to chemical agents

USA. NIOSH Recommended Exposure Limits NIOSH REL

Mexico. Norm NOM-010-STPS-2014 on Chemicals Polluting NOM-010-STPS-2014

the Work Environment - Identification, Assessment and Con-

trol - Appendix 1 Occupational Exposure Limits

OSHA<sub>P0</sub> USA. OSHA - TABLE Z-1 Limits for Air Contaminants -

1910.1000

OSHA Z-1 USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim-

its for Air Contaminants

**US WEEL** USA. Workplace Environmental Exposure Levels (WEEL)

ACGIH / TWA 8-hour, time-weighted average ACGIH / STEL Short-term exposure limit

CA AB OEL / TWA 8-hour Occupational exposure limit CA AB OEL / STEL 15-minute occupational exposure limit

CA BC OEL / TWA 8-hour time weighted average CA BC OEL / STEL short-term exposure limit

CA BC OEL / C ceiling limit Ceiling Limit (C) CA ON OEL / C

CA ON OEL / TWA Time-Weighted Average Limit (TWA) CA QC OEL / TWAEV Time-weighted average exposure value

CA QC OEL / STEV Short-term exposure value

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

NIOSH REL / C Ceiling value not be exceeded at any time.

NOM-010-STPS-2014 / VLE-

Time weighted average limit value

NOM-010-STPS-2014 / VLE- : Short term exposure limit value

CT

OSHA P0 / TWA 8-hour time weighted average OSHA P0 / STEL Short-term exposure limit OSHA Z-1 / TWA 8-hour time weighted average

US WEEL / TWA 8-hr TWA

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 Pre-



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vention 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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