# Safety Data Sheet MAPEFLEX PRIMER NA

Safety Data Sheet dated: 06/16/2021 - version 2

Date of first edition: 01/21/2021



## 1. IDENTIFICATION

#### **Product identifier**

Mixture identification:

Trade name: MAPEFLEX PRIMER NA

Trade code: 9026759

Recommended use of the chemical and restrictions on use

Recommended use: Sealant Restrictions on use: Not available

Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Company: MAPEI CORP. (USA and Puerto Rico)

1144 East Newport Center Drive - 33442 - Deerfield Beach - FL - USA

Responsible: RDProductSafety@mapei.com

**Emergency 24 hour numbers:** 

Emergency Number (USA/Canada) CHEMTREC 1(800) 424-9300 / 1(703) 527-3887

Emergency Transport CANUTEC (Canada) 1-613-996-6666

# 2. HAZARD(S) IDENTIFICATION







# Classification of the chemical

Flam. Liq. 2 Highly flammable liquid and vapour.

Skin Irrit. 2 Causes skin irritation.

Eye Irrit. 2A Causes serious eye irritation.

Resp. Sens. 1 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Skin Sens. 1 May cause an allergic skin reaction.

Carc. 2 Suspected of causing cancer if inhaled, in contact with skin and if swallowed.

Repr. 2 Suspected of damaging fertility or the unborn child if inhaled, in contact with skin and if swallowed.

STOT SE 3 May cause respiratory irritation.
STOT SE 3 May cause drowsiness or dizziness.

STOT RE 2 May cause damage to organs through prolonged or repeated exposure if inhaled.

## **Label elements**

#### Hazard pictograms and Signal Word



# Danger

# **Hazard statements**

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation.H336 May cause drowsiness or dizziness.

H351 Suspected of causing cancer if inhaled, in contact with skin and if swallowed.

H361 Suspected of damaging fertility or the unborn child if inhaled, in contact with skin and if swallowed.

H373 May cause damage to organs through prolonged or repeated exposure if inhaled.

## **Precautionary statements**

P201 Obtain special instructions before use.

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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.
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 mist/vapours/spray.
P264	Wash skin thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P284	[In case of inadequate ventilation] wear respiratory protection.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P304+P341	IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P312	Call a doctor if you feel unwell.
P321	Specific treatment (see supplementary instructions on this label).
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P342+P311	If experiencing respiratory symptoms: Call a doctor.
P362+P364	Take off contaminated clothing and wash it before reuse.
P370+P378	In case of fire, use a dry powder fire extinguisher to extinguish.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container in accordance with applicable regulations.
Ingredient(s) with u	nknown acute toxicity:

# Ingredient(s) with unknown acute toxicity:

None

# Hazards not otherwise classified identified during the classification process:

None

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

# **Substances**

Not available

### **Mixtures**

Hazardous components within the meaning of 29 CFR 1910.1200 and related classification:

# List of components

Concentra tion (% w/w)	Name	Ident. Numb.	Classification	Registration Number
25-50 %	ethylacetate; acetic acid ethyl ester	CAS:141-78-6	Flam. Liq. 2, H225; STOT SE 3, H336	
10-20 %	1,6-diisocyanatohexane homopolymer; Hexamethylene diisocyanate homopolymer	CAS:28182-81-2	Acute Tox. 4, H332; Skin Sens. 1, H317; STOT SE 3, H335	
10-20 %	4,4'-methylenediphenyl diisocyanate; benzene, 1,1'-methylenebis[4-isocyanato-	CAS:101-68-8	Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335; STOT RE 2, H373; Carc. 2, H351; Resp. Sens. 1, H334; Skin Sens. 1, H317	
5-10 %	methyl ethyl ketone; Butanone	CAS:78-93-3	Flam. Liq. 2, H225; Eye Irrit. 2A, H319; STOT SE 3, H336	

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5-10 %	diphenylmethane-2,4- diisocyanate; o-(p- Isocyanatobenzyl)phenyl isocyanate	CAS:5873-54-1	Eye Irrit. 2A, H319; Skin Irrit. 2, H315; STOT SE 3, H335; Resp. Sens. 1, H334; Acute Tox. 4, H332; STOT RE 2, H373; Skin Sens. 1, H317
2.5-5 %	xylenes; 1,2 dimethylbenzene	CAS:1330-20-7	Flam. Liq. 3, H226; Acute Tox. 4, H332; Acute Tox. 4, H312; Skin Irrit. 2, H315
1-2.5 %	2,2'-methylenediphenyl diisocyanate; 1,1'-Methylenebis(2-isocyanatobenzene)	CAS:2536-05-2	STOT RE 2, H373; Eye Irrit. 2A, H319; STOT SE 3, H335; Skin Irrit. 2, H315; Acute Tox. 4, H332; Resp. Sens. 1, H334; Skin Sens. 1, H317
1-2.5 %	polymethylene polyphenylene isocyanate; Isocyanic acid, polymethylenepolyphenylene ester	CAS:9016-87-9	Acute Tox. 4, H332; STOT SE 3, H335; Skin Irrit. 2, H315; STOT RE 2, H373; Eye Irrit. 2A, H319; Resp. Sens. 1, H334; Skin Sens. 1, H317
1-2.5 %	ethyl benzene; aethylbenzol	CAS:100-41-4	Flam. Liq. 2, H225; Acute Tox. 4, H332; Asp. Tox. 1, H304
0.25-0.49 %	dibutyltin dilaurate; dibutyltin dilaurate; dibutyl[bis(dodecanoyloxy)] stannane	CAS:77-58-7	Skin Corr. 1C, H314; Eye Dam. 1, H318; Skin Sens. 1, H317; Muta. 2, H341; STOT RE 1, H372; Repr. 2, H361
0.25-0.49 %	4-methylbenzenesulfonyl isocyanate; 4-isocyanatosulphonyltoluene	CAS:4083-64-1	Eye Irrit. 2A, H319; STOT SE 3, H335; Skin Irrit. 2, H315; Resp. Sens. 1, H334

#### 4. FIRST AID MEASURES

# **Description of first aid measures**

In case of skin contact:

Immediately take off all contaminated clothing.

OBTAIN IMMEDIATE MEDICAL ATTENTION.

Obtain medical attention if skin related symptoms persist.

Remove contaminated clothing immediately and dispose of safely.

After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an opthalmologist immediately.

Protect uninjured eye.

In case of Ingestion:

Do not induce vomiting, get medical attention showing the SDS and the hazard label.

In case of Inhalation:

If breathing is irregular or stopped, administer artificial respiration.

In case of inhalation, consult a doctor immediately and show him packing or label.

# Most important symptoms/effects, acute and delayed

Eye irritation

Eye damages

Skin Irritation

Erythema

# Indication of any immediate medical attention and special treatment needed

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

(see paragraph 4.1)

# **5. FIRE-FIGHTING MEASURES**

# **Extinguishing media**

Suitable extinguishing media:

# Unsuitable extinguishing media:

None in particular.

## Specific hazards arising from the chemical

Do not inhale explosion and combustion gases.

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Burning produces heavy smoke.

Hazardous combustion products: Not available

Explosive properties: Not available Oxidizing properties: Not available

## Special protective equipment and precautions for fire-fighters

Use suitable breathing apparatus.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

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

# Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Remove all sources of ignition.

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Provide adequate ventilation.

Use appropriate respiratory protection.

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Limit leakages with earth or sand.

## Methods and material for containment and cleaning up

Suitable material for taking up: absorbing material, organic, sand

Retain contaminated washing water and dispose it.

#### 7. HANDLING AND STORAGE

## Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Exercise the greatest care when handling or opening the container.

Do not use on extensive surface areas in premises where there are occupants.

Use localized ventilation system.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

# Conditions for safe storage, including any incompatibilities

Storage temperature: Not available

Always keep in a well ventilated place.

Store at below 20 °C. Keep away from unguarded flame and heat sources. Avoid direct exposure to sunlight.

Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.

Avoid accumulating electrostatic charge.

Keep away from food, drink and feed.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Cool and adequately ventilated.

Safety electric system.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## **Control parameters**

#### List of components with OEL value

Component	OEL Type	Country	Ceiling	Long Term mg/m3	Long Term ppm	Short Term mg/m3	Short Term ppm	Behaviour	Note
ethylacetate; acetic acid ethyl ester	OSHA			1400	400	-			
	ACGIH				400				eye and upper respiratory tract irritation;
	MAK	GERMANY		750	200				
	ACGIH				400				eye and upper respiratory tract irritation

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4,4'-methylenediphenyl	MAK MAK ACGIH	AUSTRIA SWITZERLAND	734 730	200 200 0,005	1468	400		respiratory sensitization
diisocyanate; benzene, 1,1'-methylenebis[4- isocyanato-								(listed under Methylene bisphenyl isocyanate (MDI));
	OSHA MAK	C GERMANY	0,05		0,2	0,02		
	ACGIH	GERMANT	0,03	0,005				respiratory sensitization (listed under Methylene bisphenyl isocyanate (MDI))
methyl ethyl ketone; Butanone	MAK OSHA	AUSTRIA	0,05 590	0,005 200	0,1	0,01		
Saterione	ACGIH			200		300		CNS and PNS impairment; upper respiratory tract irritation;
	EU MAK	GERMANY	600 600	200 200	900	300	Indicative	
	ACGIH	GERMANT	000	200		300		CNS and PNS impairment; upper respiratory tract irritation
	MAK	AUSTRIA	295	100	590	200		
diphenylmethane-2,4-	MAK MAK	SWITZERLAND AUSTRIA	590 0,05	200 0,005	0,1	0,01		
diisocyanate; o-(p- Isocyanatobenzyl)phenyl isocyanate			,,,,,	,,,,,,	,	.,.		
xylenes; 1,2 dimethylbenzene	OSHA		435	100				
	ACGIH			100		150		A4 - Not Classifiable as a Human Carcinogen; CNS impairment; eye and upper respiratory tract irritation;
	EU		221	50	442	100	Indicative	Possibility of significant uptake through the skin;
	MAK	GERMANY	220	50				
	ACGIH			100		150		A4 - Not Classifiable as a Human Carcinogen; CNS impairment; eye and upper respiratory tract irritation
	MAK	AUSTRIA	221	50	442	100		
	MAK EU	SWITZERLAND	435 221	100 50	442	100	Indicative	Possibility of significant uptake through the skin (pure)
2,2'-methylenediphenyl diisocyanate; 1,1'- Methylenebis(2- isocyanatobenzene)	MAK	AUSTRIA	0,05	0,005	0,1	0,01		
polymethylene polyphenylene isocyanate; Isocyanic acid, polymethylenepolyphenyl ene ester	MAK	GERMANY	0,05					
ethyl benzene; aethylbenzol	OSHA		435	100				

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ACGIH			20				A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans;upper respiratory tract irritation;kidney damage (nephropathy);cochlear impairment;
EU		442	100	884	200	Indicative	Possibility of significant uptake through the skin;
MAK	GERMANY	88	20				
ACGIH			20				A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans;upper respiratory tract irritation;kidney damage (nephropathy);cochlear impairment
MAK	AUSTRIA	440	100	880	200		
MAK	SWITZERLAND	220	50				
EU		442	100	884	200	Indicative	Possibility of significant uptake through the skin

## **Biological Exposure Index**

Component	CAS-No.	Value	UoM	Medium	<b>Biological Indicator</b>	Sampling Period
methyl ethyl ketone; Butanone	78-93-3	2	mg/L	Urine	MEK	End of turn
xylenes; 1,2 dimethylbenzene	1330-20-7 e	1,5	GGCREAT	Urine	Methyl uric Acid	End of turn
ethyl benzene; aethylbenzol	100-41-4	0,7	GGCREAT	Urine	Mandelic acid and fenilgliossalico	End of turn; End of working week
				Air at the end of exhalation	Ethylbenzene	Not critical
		0,15	GGCREAT	Urine	Mandelic acid and fenilgliossalico	End of turn

Appropriate engineering controls: Not available

## **Individual protection measures**

Eye protection:

Use close fitting safety goggles, don't use eye lens.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Suitable materials for safety gloves; 29 CFR 1910.138 - ANSI/ISEA 105:

Polychloroprene - CR: thickness >=0,5mm; breakthrough time >=480min.

Nitrile rubber - NBR: thickness >=0,35mm; breakthrough time >=480min.

Butyl rubber - IIR: thickness >=0,5mm; breakthrough time >=480min.

Fluorinated rubber - FKM: thickness >=0,4mm; breakthrough time >=480min.

Use impervious gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

# Respiratory protection:

Respiratory protection must be used where exposure levels exceed workplace exposure limits. Refer to 29 CFR 1910.134 - CSA Z94.4 for information on selection and use of appropriate respiratory protection equipment.

Use adequate protective respiratory equipment.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

# Information on basic physical and chemical properties

Physical state: Liquid

Appearance and colour: Liquid light brown

Odour: No data available

Odour threshold: No data available

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pH: No data available

Melting point / freezing point: No data available
Initial boiling point and boiling range: No data available

Flash point: 4,4 °C (39,9 °F) Evaporation rate: No data available

Upper/lower flammability or explosive limits: No data available

Vapour density: No data available Vapour pressure: No data available Relative density: 1.05 g/cm3

Solubility in water: No data available Solubility in oil: No data available

Partition coefficient (n-octanol/water): No data available

Auto-ignition temperature: No data available Decomposition temperature: No data available

Viscosity: No data available

Explosive properties: No data available Oxidizing properties: No data available Solid/gas flammability: No data available

## Other information

Substance Groups relevant properties No data available

Miscibility: No data available Fat Solubility: No data available Conductivity: No data available

# 10. STABILITY AND REACTIVITY

## Reactivity

It may generate dangerous reactions (See subsections below)

#### **Chemical stability**

It may generate dangerous reactions (See subsections below)

#### Possibility of hazardous reactions

None.

# **Conditions to avoid**

Avoid accumulating electrostatic charge.

# **Incompatible materials**

Avoid contact with combustible materials. The product could catch fire.

# **Hazardous decomposition products**

None.

## 11. TOXICOLOGICAL INFORMATION

# Information on toxicological effects

# Toxicological information of the product:

There is no toxicological data available on the mixture. Consider the individual concentration of each component to assess toxicological effects resulting from exposure to the mixture.

## Toxicological information of the main substances found in the product:

ethylacetate; acetic acid a) acute toxicity

ethyl ester

LD50 Skin Rabbit > 20 ml/kg

LC50 Inhalation Mouse = 1500 ppm 4h

LD50 Oral Rat = 5620 mg/kg

LD50 Skin Rabbit > 18000,00000 mg/kg

LD50 Skin Rabbit > 18000 mg/kg LC50 Inhalation Rat = 4000 ppm 4h

LD50 Oral Rat = 5620 mg/kg

LC50 Inhalation Rat = 4000 ppm 4h

1,6-diisocyanatohexane a) acute toxicity

homopolymer; Hexamethylene diisocyanate homopolymer LC50 Inhalation Rat = 18500 mg/m3 1h

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methyl ethyl ketone; Butanone  a) acute toxicity  LC50 Inhalation Rat = 23500 mg/m3 8h LC50 Inhalation Rat = 23500 mg/m3 8h LC50 Inhalation Rat = 11700 ppm 4h LD50 Oral Rat = 2483 mg/kg  xylenes; 1,2 dimethylbenzene  a) acute toxicity  LC50 Inhalation Rat = 47635 mg/l 4h LD50 Oral Rat = 4300 mg/kg LC50 Inhalation Rat = 29,08 mg/l 4h LD50 Oral Rat = 3500 mg/kg LC50 Inhalation Rat = 29,08 mg/l 4h LD50 Oral Rat = 3500 mg/kg LC50 Inhalation Rat = 490 mg/m3 4h LD50 Oral Rat = 3500 mg/kg LC50 Inhalation Rat = 490 mg/m3 4h LD50 Oral Rat = 49 g/kg  ethyl benzene; a) acute toxicity  ethyl benzene; a) acute toxicity  a) acute toxicity  LC50 Inhalation Rat = 172 mg/l 4h LD50 Oral Rat = 3500 mg/kg LC50 Inhalation Rat = 177.4 mg/l 4h LD50 Oral Rat = 3500 mg/kg LC50 Inhalation Rat = 177.4 mg/l 4h LD50 Oral Rat = 3500 mg/kg LC50 Inhalation Rat = 177.4 mg/l 4h LD50 Oral Rat = 3500 mg/kg LC50 Inhalation Rat = 177.4 mg/l 4h LD50 Oral Rat = 3500 mg/kg LC50 Inhalation Rat = 177.4 mg/l 4h LD50 Oral Rat = 3500 mg/kg LC50 Inhalation Rat = 177.4 mg/l 4h LD50 Oral Rat = 3500 mg/kg LC50 Inhalation Rat = 177.4 mg/l 4h LD50 Oral Rat = 3500 mg/kg LC50 Inhalation Rat = 177.4 mg/l 4h LD50 Oral Rat = 3500 mg/kg LC50 Inhalation Rat = 177.4 mg/l 4h LD50 Oral Rat = 45 mg/kg  4-methylbenzenesulfonyl a) acute toxicity isocyanate; 4-isocyanates; 4-isocyanates; 4-isocyanates; 4-isocyanatosulphonyltoluen e	4,4'-methylenediphenyl diisocyanate; benzene, 1,1'-methylenebis[4-isocyanato-	a) acute toxicity	LC50 Inhalation Rat = 369 mg/m3 4h
Butanone  LD50 Skin Rabbit = 5000 mg/kg LC50 Inhalation Rat = 11700 ppm 4h LD50 Oral Rat = 2483 mg/kg  xylenes; 1,2 dimethylbenzene  a) acute toxicity  LD50 Oral Rat = 47635 mg/l 4h LD50 Oral Rat = 4300 mg/kg LD50 Skin Rabbit > 4350 mg/kg LD50 Skin Rabbit > 4350 mg/kg LD50 Oral Rat = 3500 mg/kg LD50 Oral Rat = 3500 mg/kg LD50 Oral Rat = 490 mg/m3 4h LD50 Oral Rat = 490 mg/m3 4h LD50 Oral Rat = 49 g/kg LD50 Skin Rabbit > 9,4 g/kg LD50 Oral Rat = 49 g/kg LD50 Oral Rat = 49 g/kg LD50 Oral Rat = 172 mg/l 4h LD50 Oral Rat = 3500 mg/kg LD50 Skin Rabbit = 15354 mg/kg LD50 Oral Rat = 3500 mg/kg LD50 Oral Rat = 45 mg/kg  dibutyltin dilaurate; dilautyltin di			LD50 Oral Rat = 31600 mg/kg
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LD50 Skin Rabbit > 4350 mg/kg LC50 Inhalation Rat = 29,08 mg/l 4h LD50 Oral Rat = 3500 mg/kg  polymethylene polyphenylene isocyanate; Isocyanic acid, polymethylenepolyphenyl ene ester  LD50 Skin Rabbit > 9,4 g/kg LD50 Oral Rat = 49 g/kg  LD50 Oral Rat = 49 g/kg  LD50 Skin Rabbit = 15354 mg/kg  LC50 Inhalation Rat = 172 mg/l 4h LD50 Oral Rat = 3500 mg/kg LD50 Oral Rat = 3500 mg/kg LD50 Skin Rabbit = 15400 mg/kg LD50 Skin Rabbit = 15400 mg/kg LD50 Skin Rabbit = 15400 mg/kg LD50 Oral Rat = 3500 mg/kg LD50 Oral Rat = 45 mg/kg  4-methylbenzenesulfonyl a) acute toxicity isocyanate; 4- isocyanatosulphonyltoluen		a) acute toxicity	LC50 Inhalation Rat = 47635 mg/l 4h
LC50 Inhalation Rat = 29,08 mg/l 4h LD50 Oral Rat = 3500 mg/kg  polymethylene polyphenylene isocyanate; Isocyanic acid, polymethylenepolyphenyl ene ester  LD50 Skin Rabbit > 9,4 g/kg LD50 Oral Rat = 49 g/kg  LD50 Oral Rat = 49 g/kg  LC50 Inhalation Rat = 172 mg/l 4h LD50 Oral Rat = 3500 mg/kg LD50 Oral Rat = 3500 mg/kg LD50 Oral Rat = 3500 mg/kg LD50 Skin Rabbit = 15400 mg/kg LC50 Inhalation Rat = 174 mg/l 4h LD50 Oral Rat = 3500 mg/kg LC50 Inhalation Rat = 17,4 mg/l 4h LD50 Oral Rat = 3500 mg/kg LC50 Inhalation Rat = 17,4 mg/l 4h LD50 Oral Rat = 3500 mg/kg LD50 Oral Rat = 3500 mg/kg LD50 Oral Rat = 3500 mg/kg LD50 Oral Rat = 45 mg/kg  4-methylbenzenesulfonyl a) acute toxicity isocyanate; 4- isocyanatosulphonyltoluen			LD50 Oral Rat = 4300 mg/kg
polymethylene polyphenylene isocyanate; Isocyanic acid, polymethylenepolyphenylene ester  LD50 Skin Rabbit > 9,4 g/kg LD50 Oral Rat = 490 mg/m3 4h  LD50 Skin Rabbit > 9,4 g/kg LD50 Oral Rat = 49 g/kg  ethyl benzene; aethylbenzol  a) acute toxicity  LD50 Skin Rabbit = 15354 mg/kg  LC50 Inhalation Rat = 172 mg/l 4h LD50 Oral Rat = 3500 mg/kg LD50 Oral Rat = 3500 mg/kg LD50 Oral Rat = 3500 mg/kg LD50 Oral Rat = 17,4 mg/l 4h LD50 Oral Rat = 3500 mg/kg LC50 Inhalation Rat = 17,4 mg/l 4h LD50 Oral Rat = 3500 mg/kg LC50 Inhalation Rat = 17,4 mg/l 4h LD50 Oral Rat = 3500 mg/kg  LD50 Oral Rat = 45 mg/kg  4-methylbenzenesulfonyl a) acute toxicity ID50 Oral Rat = 45 mg/kg  LC50 Inhalation Rat > 640 ppm 1h ID50 Oral Rat > 640 ppm 1h			LD50 Skin Rabbit > 4350 mg/kg
polymethylene polyphenylene isocyanate; Isocyanic acid, polymethylenepolyphenylene ester  LD50 Skin Rabbit > 9,4 g/kg LD50 Oral Rat = 49 g/kg  ethyl benzene; aethylbenzol  a) acute toxicity  LD50 Skin Rabbit = 15354 mg/kg  LC50 Inhalation Rat = 172 mg/l 4h LD50 Oral Rat = 3500 mg/kg LD50 Oral Rat = 3500 mg/kg LD50 Oral Rat = 3500 mg/kg LC50 Inhalation Rat = 17,4 mg/l 4h LD50 Oral Rat = 3500 mg/kg LC50 Inhalation Rat = 17,4 mg/l 4h LD50 Oral Rat = 3500 mg/kg LC50 Inhalation Rat = 45 mg/kg  dibutyltin dilaurate; dibutyl[bis (dodecanoyloxy)] stannane  LD50 Oral Rat = 45 mg/kg  4-methylbenzenesulfonyl a) acute toxicity  LC50 Inhalation Rat > 640 ppm 1h isocyanate; 4-isocyanate; 4-isocyanatosulphonyltoluen			LC50 Inhalation Rat = 29,08 mg/l 4h
polyphenylene isocyanate; Isocyanic acid, polymethylenepolyphenyl ene ester  LD50 Skin Rabbit > 9,4 g/kg LD50 Oral Rat = 49 g/kg  ethyl benzene; a) acute toxicity  ethylbenzol  LD50 Skin Rabbit = 15354 mg/kg  LC50 Inhalation Rat = 172 mg/l 4h LD50 Oral Rat = 3500 mg/kg LD50 Skin Rabbit = 15400 mg/kg LC50 Inhalation Rat = 17,4 mg/l 4h LD50 Oral Rat = 3500 mg/kg  LC50 Inhalation Rat = 17,4 mg/l 4h LD50 Oral Rat = 3500 mg/kg  LD50 Skin Rabbit = 630 mg/kg  LD50 Oral Rat = 45 mg/kg  4-methylbenzenesulfonyl a) acute toxicity isocyanate; 4- isocyanatosulphonyltoluen			LD50 Oral Rat = 3500 mg/kg
ethyl benzene; a) acute toxicity  ethyl benzene; a) acute toxicity  LD50 Skin Rabbit = 15354 mg/kg  LC50 Inhalation Rat = 172 mg/l 4h  LD50 Oral Rat = 3500 mg/kg  LD50 Skin Rabbit = 15400 mg/kg  LD50 Skin Rabbit = 17,4 mg/l 4h  LD50 Oral Rat = 3500 mg/kg  LD50 Skin Rabbit = 17,4 mg/l 4h  LD50 Oral Rat = 3500 mg/kg  LD50 Skin Rabbit = 630 mg/kg  LD50 Oral Rat = 45 mg/kg  4-methylbenzenesulfonyl a) acute toxicity  LD50 Oral Rat = 45 mg/kg  LD50 Oral Rat = 45 mg/kg	polyphenylene isocyanate; Isocyanic acid, polymethylenepolypheny		LC50 Inhalation Rat = 490 mg/m3 4h
ethyl benzene; aethylbenzol  a) acute toxicity  LC50 Inhalation Rat = 172 mg/l 4h  LD50 Oral Rat = 3500 mg/kg  LD50 Skin Rabbit = 15400 mg/kg  LD50 Skin Rabbit = 15400 mg/kg  LC50 Inhalation Rat = 17,4 mg/l 4h  LD50 Oral Rat = 3500 mg/kg  LC50 Inhalation Rat = 17,4 mg/l 4h  LD50 Oral Rat = 3500 mg/kg  LD50 Skin Rabbit = 630 mg/kg  dibutyltin dilaurate; dibutyl[bis (dodecanoyloxy)] stannane  LD50 Oral Rat = 45 mg/kg  4-methylbenzenesulfonyl a) acute toxicity lc50 Inhalation Rat > 640 ppm 1h isocyanate; 4-isocyanatosulphonyltoluen			LD50 Skin Rabbit > 9,4 g/kg
aethylbenzol  LC50 Inhalation Rat = 172 mg/l 4h LD50 Oral Rat = 3500 mg/kg LD50 Skin Rabbit = 15400 mg/kg LC50 Inhalation Rat = 17,4 mg/l 4h LD50 Oral Rat = 3500 mg/kg  LC50 Inhalation Rat = 17,4 mg/l 4h LD50 Oral Rat = 3500 mg/kg  dibutyltin dilaurate; dibutyl[bis (dodecanoyloxy)] stannane  LD50 Skin Rabbit = 630 mg/kg  LD50 Skin Rabbit = 630 mg/kg  LD50 Oral Rat = 45 mg/kg  4-methylbenzenesulfonyl a) acute toxicity isocyanate; 4- isocyanatosulphonyltoluen			LD50 Oral Rat = 49 g/kg
LD50 Oral Rat = 3500 mg/kg LD50 Skin Rabbit = 15400 mg/kg LC50 Inhalation Rat = 17,4 mg/l 4h LD50 Oral Rat = 3500 mg/kg  dibutyltin dilaurate; dibutyl[bis (dodecanoyloxy)] stannane  LD50 Skin Rabbit = 630 mg/kg  LD50 Skin Rabbit = 630 mg/kg  LD50 Oral Rat = 45 mg/kg  4-methylbenzenesulfonyl a) acute toxicity isocyanate; 4- isocyanatosulphonyltoluen		a) acute toxicity	LD50 Skin Rabbit = 15354 mg/kg
LD50 Skin Rabbit = 15400 mg/kg LC50 Inhalation Rat = 17,4 mg/l 4h LD50 Oral Rat = 3500 mg/kg  dibutyltin dilaurate; dibutyltin dilaurate; dibutyl[bis (dodecanoyloxy)] stannane  LD50 Skin Rabbit = 630 mg/kg  LD50 Skin Rabbit = 630 mg/kg  LD50 Oral Rat = 45 mg/kg  4-methylbenzenesulfonyl a) acute toxicity isocyanate; 4- isocyanatosulphonyltoluen			LC50 Inhalation Rat = 172 mg/l 4h
LC50 Inhalation Rat = 17,4 mg/l 4h LD50 Oral Rat = 3500 mg/kg  dibutyltin dilaurate; dibutyltin dilaurate; dibutyl[bis (dodecanoyloxy)] stannane  LD50 Oral Rat = 45 mg/kg  4-methylbenzenesulfonyl a) acute toxicity isocyanate; 4- isocyanatosulphonyltoluen			LD50 Oral Rat = 3500 mg/kg
dibutyltin dilaurate; a) acute toxicity dibutyltin dilaurate; dibutyltin dilaurate; dibutyl[bis (dodecanoyloxy)] stannane  LD50 Oral Rat = 45 mg/kg  4-methylbenzenesulfonyl a) acute toxicity isocyanate; 4-isocyanatosulphonyltoluen			LD50 Skin Rabbit = 15400 mg/kg
dibutyltin dilaurate; a) acute toxicity dibutyltin dilaurate; dibutyltin dilaurate; dibutyl[bis (dodecanoyloxy)] stannane  LD50 Oral Rat = 45 mg/kg  4-methylbenzenesulfonyl a) acute toxicity isocyanate; 4-isocyanatosulphonyltoluen			LC50 Inhalation Rat = 17,4 mg/l 4h
dibutyltin dilaurate; dibutyl[bis (dodecanoyloxy)] stannane  LD50 Oral Rat = 45 mg/kg  4-methylbenzenesulfonyl a) acute toxicity isocyanate; 4- isocyanatosulphonyltoluen			LD50 Oral Rat = 3500 mg/kg
4-methylbenzenesulfonyl a) acute toxicity LC50 Inhalation Rat > 640 ppm 1h isocyanate; 4-isocyanatosulphonyltoluen	dibutyltin dilaurate; dibutyl[bis (dodecanoyloxy)]	a) acute toxicity	LD50 Skin Rabbit = 630 mg/kg
isocyanate; 4- isocyanatosulphonyltoluen			LD50 Oral Rat = 45 mg/kg
	isocyanate; 4- isocyanatosulphonyltolue		LC50 Inhalation Rat > 640 ppm 1h
LD50 Oral Rat = 2234 mg/kg			LD50 Oral Rat = 2234 mg/kg

If not differently specified, the information required in the regulation and listed below must be considered as N.A.

- a) acute toxicity
- b) skin corrosion/irritation
- c) serious eye damage/irritation
- d) respiratory or skin sensitisation
- e) germ cell mutagenicity

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- f) carcinogenicity
- g) reproductive toxicity
- h) STOT-single exposure

Toxicological kinetics, metabolism and distribution information

- i) STOT-repeated exposure
- j) aspiration hazard

# Substance(s) listed on the IARC Monographs:

4,4'-methylenediphenyl diisocyanate; benzene, 1,1'methylenebis[4-isocyanato-

xylenes; 1,2 dimethylbenzene Group 3 polymethylene polyphenylene Group 3

isocyanate; Isocyanic acid, polymethylenepolyphenylene ester

ethyl benzene; aethylbenzol Group 2B

## Substance(s) listed as OSHA Carcinogen(s):

ethyl benzene; aethylbenzol

# Substance(s) listed as NIOSH Carcinogen(s):

None

# Substance(s) listed on the NTP report on Carcinogens:

None

# 12. ECOLOGICAL INFORMATION

# **Toxicity**

Adopt good working practices, so that the product is not released into the environment. Eco-Toxicological Information:

Group 3

List of components with eco-to	xicological prop	erties
Component	Ident. Numb.	Ecotox Infos
ethylacetate; acetic acid ethyl ester	CAS: 141-78-6	a) Aquatic acute toxicity: LC50 Fish Pimephales promelas 220 mg/L 96h EPA
		a) Aquatic acute toxicity : LC50 Fish Oncorhynchus mykiss = 484 mg/L 96h IUCLID
		a) Aquatic acute toxicity: EC50 Daphnia Daphnia magna = 560 mg/L 48h EPA
		a) Aquatic acute toxicity: LC50 Fish Oncorhynchus mykiss 352 mg/L 96h EPA
methyl ethyl ketone; Butanone	CAS: 78-93-3	a) Aquatic acute toxicity: LC50 Fish Pimephales promelas 3130 mg/L 96h EPA
		a) Aquatic acute toxicity : EC50 Daphnia Daphnia magna $>$ 520 mg/L 48h IUCLID
		a) Aquatic acute toxicity : EC50 Daphnia Daphnia magna = 5091 mg/L 48h IUCLID
		a) Aquatic acute toxicity: EC50 Daphnia Daphnia magna 4025 mg/L 48h EPA
xylenes; 1,2 dimethylbenzene	CAS: 1330-20-7	a) Aquatic acute toxicity: LC50 Fish Cyprinus carpio = 780 mg/L 96h EPA
		a) Aquatic acute toxicity : LC50 Fish Pimephales promelas = $13,4$ mg/L $96h$ EPA
		a) Aquatic acute toxicity: LC50 Fish Oncorhynchus mykiss 2,661 mg/L 96h EPA
		a) Aquatic acute toxicity: LC50 Fish Oncorhynchus mykiss 13,5 mg/L 96h IUCLID
		a) Aquatic acute toxicity: LC50 Fish Lepomis macrochirus 13,1 mg/L 96h EPA
		a) Aquatic acute toxicity: LC50 Fish Lepomis macrochirus = 19 mg/L 96h EPA
		a) Aquatic acute toxicity: LC50 Fish Lepomis macrochirus 7,711 mg/L 96h EPA
		a) Aquatic acute toxicity: LC50 Fish Pimephales promelas 23,53 mg/L 96h

11/10/2022 MAPEFLEX PRIMER NA Print date Production Name Page n. 9 of 14 a) Aquatic acute toxicity: LC50 Fish Cyprinus carpio > 780 mg/L 96h IUCLID

a) Aquatic acute toxicity: LC50 Fish Poecilia reticulata 30,26 mg/L 96h EPA

a) Aquatic acute toxicity: EC50 Daphnia water flea = 3,82 mg/L 48h

a) Aquatic acute toxicity: LC50 Daphnia Gammarus lacustris = 0,6 mg/L 48h

a) Aquatic acute toxicity: LC50 Fish Oncorhynchus mykiss 11 mg/L 96h EPA

a) Aquatic acute toxicity: LC50 Fish Lepomis macrochirus = 32 mg/L 96h EPA

a) Aquatic acute toxicity: EC50 Algae Pseudokirchneriella subcapitata > 438

mg/L 96h IUCLID

a) Aquatic acute toxicity: LC50 Fish Oncorhynchus mykiss = 4,2 mg/L 96h

CAS: 100-41-4

a) Aquatic acute toxicity: LC50 Fish Pimephales promelas 7,55 mg/L 96h EPA

a) Aquatic acute toxicity: LC50 Fish Pimephales promelas 9,1 mg/L 96h EPA

a) Aquatic acute toxicity: LC50 Fish Poecilia reticulata = 9,6 mg/L 96h EPA

a) Aquatic acute toxicity: EC50 Daphnia Daphnia magna 1,8 mg/L 48h IUCLID

a) Aquatic acute toxicity: EC50 Algae Pseudokirchneriella subcapitata = 4,6

mg/L 72h IUCLID

a) Aquatic acute toxicity: EC50 Algae Pseudokirchneriella subcapitata 2,6

mg/L 72h EPA

a) Aquatic acute toxicity: EC50 Algae Pseudokirchneriella subcapitata 1,7

mg/L 96h EPA

# Persistence and degradability

Not available

ethyl benzene; aethylbenzol

## **Bioaccumulative potential**

Not available

#### Mobility in soil

Not available

## Other adverse effects

Not available

# 13. DISPOSAL CONSIDERATIONS

# Waste treatment methods

The generation of waste should be avoided or minimized wherever possible. Recover if possible.

#### Methods of disposal:

Disposal of this product, solutions, packaging and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Dispose of surplus and nonrecyclable products via a licensed waste disposal contractor.

Do not dispose of waste into sewers.

#### Disposal considerations:

Do not allow to enter drains or watercourses.

Dispose of product according to all federal, state and local applicable regulations.

If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be

Dispose of containers contaminated by the product in accordance with local or national legal provisions. For further information, contact your local waste authority.

## Special precautions:

This material and its container must be disposed of in a safe way. Care should be taken when handling untreated empty containers. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Empty containers or liners may retain some product residues. Do not re-use empty containers.

## 14. TRANSPORT INFORMATION

#### IIN number

ADR-UN number: 1993 DOT-UN Number: UN1993 IATA-Un number: 1993 IMDG-Un number: 1993

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#### **UN proper shipping name**

ADR-Shipping Name: FLAMMABLE LIQUID, N.O.S. (ethylacetate; acetic acid ethyl ester - methyl ethyl ketone; Butanone) DOT-Proper Shipping Name: Flammable liquids, n.o.s. (ethylacetate; acetic acid ethyl ester - methyl ethyl ketone; Butanone) IATA-Technical name: FLAMMABLE LIQUID, N.O.S. (ethylacetate; acetic acid ethyl ester - methyl ethyl ketone; Butanone) IMDG-Technical name: FLAMMABLE LIQUID, N.O.S. (ethylacetate; acetic acid ethyl ester - methyl ethyl ketone; Butanone)

#### Transport hazard class(es)

ADR-Class: 3

DOT-Hazard Class: 3

IATA-Class: 3
IMDG-Class: 3

# **Packing group**

ADR-Packing Group: II DOT-Packing group: II IATA-Packing group: II IMDG-Packing group: II

# **Environmental hazards**

Marine pollutant: No

Environmental Pollutant: Not available

#### Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not available

#### Special precautions

Department of Transportation (DOT):

DOT-Special Provision(s): IB2, T7, TP1, TP8, TP28

DOT-Label(s): 3
DOT-Symbol: N/A
DOT-Cargo Aircraft: N/A
DOT-Passenger Aircraft: N/A

DOT-Bulk: N/A DOT-Non-Bulk: N/A Road and Rail ( ADR-RID ) : ADR-Label: 3

ADR-Hazard identification number: 33

ADR-Transport category (Tunnel restriction code): 2 (D/E)

Air ( IATA ):

IATA-Passenger Aircraft: 353 IATA-Cargo Aircraft: 364

IATA-Label: 3

IATA-Subsidiary hazards: -

IATA-Erg: 3H

IATA-Special Provisioning: A3

Sea (IMDG):

IMDG-Stowage Code: Category B

IMDG-Stowage Note: -

IMDG-Subsidiary hazards: -

IMDG-Special Provisioning: 274

IMDG-Page: N/A
IMDG-Label: N/A
IMDG-EMS: F-E, S-E
IMDG-MFAG: N/A

# **15. REGULATORY INFORMATION**

# **USA - Federal regulations**

# **TSCA - Toxic Substances Control Act**

TSCA inventory:

All the components are listed on the TSCA inventory

**TSCA listed substances:** 

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ethylacetate; acetic acid ethyl

ester

is listed in TSCA Section 8b

1,6-diisocyanatohexane homopolymer; Hexamethylene is listed in TSCA Section 8b

diisocyanate homopolymer

is listed in TSCA Section 8b Section 8a - PAIR

4,4'-methylenediphenyl diisocyanate; benzene, 1,1'methylenebis[4-isocyanato-

methyl ethyl ketone; Butanone is listed in TSCA Section 8b

diphenylmethane-2,4diisocyanate; o-(p-Isocyanatobenzyl)phenyl isocyanate

is listed in TSCA Section 8b Section 8a - PAIR

2,2'-methylenediphenyl

is listed in TSCA Section 8b is listed in TSCA Section 8b

diisocyanate; 1,1'-Methylenebis(2-

isocyanatobenzene)

polymethylene polyphenylene is listed in TSCA Section 8b

isocyanate; Isocyanic acid,

xylenes; 1,2 dimethylbenzene

polymethylenepolyphenylene ester

ethyl benzene; aethylbenzol is listed in TSCA Section 8b dibutyltin dilaurate; dibutyltin is listed in TSCA Section 8b

dilaurate;

dibutyl[bis(dodecanoyloxy)]

stannane

4-methylbenzenesulfonyl is listed in TSCA Section 8b

isocyanate; 4-

isocyanatosulphonyltoluene

# **SARA - Superfund Amendments and Reauthorization Act**

## Section 302 - Extremely Hazardous Substances:

No substances listed

# Section 304 - Hazardous substances:

ethylacetate; acetic acid ethyl ester

4,4'-methylenediphenyl diisocyanate; benzene, 1,1'-methylenebis[4-isocyanato-

methyl ethyl ketone; Butanone xylenes; 1,2 dimethylbenzene ethyl benzene; aethylbenzol

#### Section 313 - Toxic chemical list:

4,4'-methylenediphenyl diisocyanate; benzene, 1,1'-methylenebis[4-isocyanato-

xylenes; 1,2 dimethylbenzene

polymethylene polyphenylene isocyanate; Isocyanic acid, polymethylenepolyphenylene ester

ethyl benzene; aethylbenzol

# **CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act** Substance(s) listed under CERCLA:

ethylacetate; acetic acid ethyl ester	Reportable quantity:	5000	pounds
4,4'-methylenediphenyl diisocyanate; benzene, 1,1'-methylenebis[4-isocyanato-	Reportable quantity:	5000	pounds
methyl ethyl ketone; Butanone	Reportable quantity:	5000	pounds
xylenes; 1,2 dimethylbenzene	Reportable quantity:	100	pounds

Reportable quantity:

1000

pounds

## CAA - Clean Air Act

# CAA listed substances:

ethyl benzene; aethylbenzol

4,4'-methylenediphenyl Section 112(b) - HAP Section 112(b) - HON is listed in CAA diisocyanate; benzene, 1,1'methylenebis[4-isocyanato-

methyl ethyl ketone; Butanone is listed in CAA Section 112(b) - HON

xylenes; 1,2 dimethylbenzene is listed in CAA Section 112(b) - HAP Section 112(b) - HON

11/10/2022 Production Name MAPEFLEX PRIMER NA Print date Page n. 12of 14 ethyl benzene; aethylbenzol is listed in CAA Section 112(b) - HAP Section 112(b) - HON

CWA - Clean Water Act

**CWA listed substances:** 

xylenes; 1,2 dimethylbenzene is listed in CWA Section 311

ethyl benzene; aethylbenzol is listed in CWA Section 307 Section 311

## **USA - State specific regulations**

**California Proposition 65** 

# Substance(s) listed under California Proposition 65:

ethyl benzene; aethylbenzol Listed as carcinogen

#### Massachusetts Right to know

# Substance(s) listed under Massachusetts Right to know:

ethylacetate; acetic acid ethyl ester

4,4'-methylenediphenyl diisocyanate; benzene, 1,1'-methylenebis[4-isocyanato-

methyl ethyl ketone; Butanone xylenes; 1,2 dimethylbenzene ethyl benzene; aethylbenzol

# Pennsylvania Right to know

#### Substance(s) listed under Pennsylvania Right to know:

ethylacetate; acetic acid ethyl ester

4,4'-methylenediphenyl diisocyanate; benzene, 1,1'-methylenebis[4-isocyanato-

methyl ethyl ketone; Butanone xylenes; 1,2 dimethylbenzene ethyl benzene; aethylbenzol

#### New Jersey Right to know

# Substance(s) listed under New Jersey Right to know:

ethylacetate; acetic acid ethyl ester

4,4'-methylenediphenyl diisocyanate; benzene, 1,1'-methylenebis[4-isocyanato-

methyl ethyl ketone; Butanone xylenes; 1,2 dimethylbenzene

polymethylene polyphenylene isocyanate; Isocyanic acid, polymethylenepolyphenylene ester

ethyl benzene; aethylbenzol

#### Canada - Federal regulations

## **DSL - Domestic Substances List**

**DSL (Domestic Substances List)** 

All the substances are listed in the DSL.

# **NDSL - Non Domestic Substances List**

NDSL (Non Domestic Substances List)

No substances listed

# **NPRI - National Pollutant Release Inventory**

NPRI (National Pollutant Release Inventory) - List of substances listed.

No substances listed

## **16. OTHER INFORMATION**

Safety Data Sheet dated: 6/16/2021 - version 2

#### **Additional classification information**

NFPA Health: 1 = Slight

NFPA Flammability: 4 = Flammable gas or extremely flammable liquid

NFPA Reactivity: 0 = Minimal NFPA Special Risk: Not available



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This document was prepared by a competent person who has received appropriate training.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This SDS cancels and replaces any preceding release.

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H225	Highly flammable liquid and vapour.				
H226	Flammable liquid and vapour.				
H304	May be fatal if swallowed and enters airways.				
H312	Harmful in contact with skin.				
H314	Causes severe skin burns and eye damage.				
H315	Causes skin irritation.				
H317	May cause an allergic skin reaction.				
H318	Causes serious eye damage.				
H319	Causes serious eye irritation.				
H332	Harmful if inhaled.				
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.				
H335	May cause respiratory irritation.				
H336	May cause drowsiness or dizziness.				
H341	Suspected of causing genetic defects.				
H351	Suspected of causing cancer.				
H351	Suspected of causing cancer if inhaled, in contact with skin and if swallowed.				
H361	Suspected of damaging fertility or the unborn child.				
H361	Suspected of damaging fertility or the unborn child if inhaled, in contact with skin and if swallowed.				
H372	Causes damage to organs through prolonged or repeated exposure.				
H373	May cause damage to organs through prolonged or repeated exposure.				
H373	May cause damage to organs through prolonged or repeated exposure if inhaled.				
Legend to abbreviations and acronyms used in the safety data sheet:					

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.

IMDG: International Maritime Code for Dangerous Goods.

IATA: International Air Transport Association.

**Description** 

Code

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

CLP: Classification, Labeling, Packaging.

EINECS: European Inventory of Existing Commercial Chemical Substances.

INCI: International Nomenclature of Cosmetic Ingredients.

CAS: Chemical Abstracts Service (division of the American Chemical Society).

 ${\sf GefStoffVO:}\ \ {\sf Ordinance}\ \ {\sf on}\ \ {\sf Hazardous}\ \ {\sf Substances},\ {\sf Germany}.$ 

LC50: Lethal concentration, for 50 percent of test population.

LD50: Lethal dose, for 50 percent of test population.

DNEL: Derived No Effect Level.

PNEC: Predicted No Effect Concentration.

TLV: Threshold Limiting Value.

TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).

STEL: Short Term Exposure limit. STOT: Specific Target Organ Toxicity. WGK: German Water Hazard Class.

KSt: Explosion coefficient.

#### Paragraphs modified from the previous revision:

- 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING
- 2. HAZARDS IDENTIFICATION
- 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
- 9. PHYSICAL AND CHEMICAL PROPERTIES
- 11. TOXICOLOGICAL INFORMATION
- 12. ECOLOGICAL INFORMATION

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