

# Safety Data Sheet

## 2K CLEAR SB POLYURETHANE BARRIER

Safety Data Sheet dated: 1/16/2024 - version 2

Date of first edition: 8/6/2022



### 1. IDENTIFICATION

#### Product identifier

Mixture identification:

Trade name: 2K CLEAR SB POLYURETHANE BARRIER

#### Other means of identification:

Trade code: IS203

#### Recommended use of the chemical and restrictions on use

Recommended use: Paint product for professional/industrial use

Restrictions on use: N.A.

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

Company: ICA North America  
169 Main Street  
West Lorne, ON  
N0L 2P0  
Canada

Responsible: regulatoryaffairs@icaspa.com

#### Emergency telephone number

For Hazardous Materials [or Dangerous Goods] Incident Spill, Leak, Fire,

Exposure, or Accident Call CHEMTREC Day or Night

Within USA and Canada: 1 -800-424-9300

### 2. HAZARD(S) IDENTIFICATION



#### Classification of the chemical

Flammable Liquids — Category 2

Highly flammable liquid and vapour.

Skin irritation, Category 2

Causes skin irritation.

Eye irritation, Category 2A

Causes serious eye irritation.

Reproductive toxicity, Category 2

Suspected of damaging fertility or the unborn child.

Specific target organ toxicity following single exposure, Category 3

May cause drowsiness or dizziness.

Specific target organ toxicity following repeated exposure, Category 2

May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard, Category 1

May be fatal if swallowed and enters airways.

#### Label elements

##### Pictograms and Signal Words



Danger

#### Hazard statements

H225 Highly flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H361 Suspected of damaging fertility or the unborn child.

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

#### Precautionary statements

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.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical / ventilating / lighting / equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P260	Do not breathe dust / fume / gas / mist / vapours / spray.
P261	Avoid breathing dust / fume / gas / mist / vapours / spray.
P264	Wash hands and eyes thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/clothing and eye/face protection.
P301+P310	IF SWALLOWED: immediately call a POISON CENTER or doctor.
P302+P352	IF ON SKIN: Wash with plenty of water.
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.
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 POISON CENTER / doctor / if you feel unwell.
P314	Get medical advice/attention if you feel unwell.
P321	Specific treatment (see safety data sheet).
P331	Do NOT induce vomiting.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
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+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.
P501	Dispose of contents/container in accordance with applicable regulations.

#### Dir. 2004/42/EC (VOC directive)

PVE

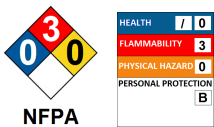
EU limit value for this product (cat. A/E): 400 g/l

This product contains max 734.54 g/l VOC.

#### Hazards not otherwise classified identified during the classification process:

None

#### Additional classification information



HMIS Health: 0 = MINIMAL

HMIS Flammability: 3 = Flammable liquid

HMIS Reactivity: 0 = MINIMAL

HMIS P.P.E.: Safety glasses, gloves

NFPA Health: 0 = MINIMAL

NFPA Flammability: 3 = Flammable liquid

NFPA Reactivity: 0 = MINIMAL

NFPA Special Risk: NONE

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Substances

N.A.

## Mixtures

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

### List of components

Qty	Name	Ident. Numb.	Classification	Registration Number
25-35 %	Ethyl acetate	CAS:141-78-6 EC:205-500-4 Index:607-022-00-5	Flam. Liq. 2, H225; Eye Irrit. 2A, H319; STOT SE 3, H336	01-2119475103-46-XXXX
15-25 %	N-butyl acetate	CAS:123-86-4 EC:204-658-1 Index:607-025-00-1	Flam. Liq. 3, H226; STOT SE 3, H336	01-2119485493-29-XXXX
15-25 %	Toluene	CAS:108-88-3 EC:203-625-9 Index:601-021-00-3	Flam. Liq. 2, H225; Asp. Tox. 1, H304; Skin Irrit. 2, H315; STOT SE 3, H336; Repr. 2, H361d; STOT RE 2, H373; Aquatic Chronic 3, H412	01-2119471310-51-XXXX
3-10 %	1-ethoxy-2-propanol acetate	CAS:98516-30-4 EC:259-370-9 Index:603-177-00-8	Flam. Liq. 3, H226; STOT SE 3, H336	01-2119475116-39-XXXX

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## 4. FIRST AID MEASURES

### Description of first aid measures

In case of skin contact:

- Immediately take off all contaminated clothing.
- Remove contaminated clothing immediately and dispose off 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 ophthalmologist immediately.
- Protect uninjured eye.

In case of Ingestion:

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

In case of Inhalation:

- Remove casualty to fresh air and keep warm and at rest.

### 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).

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## 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.
- Burning produces heavy smoke.
- Hazardous combustion products: N.A.
- Explosive properties: N.A.
- Oxidizing properties: No

### 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.
- Remove persons to safety.
- See protective measures under point 7 and 8.

### Methods and material for containment and cleaning up

- Suitable material for taking up: absorbing material, organic, sand
- Wash with plenty of water.

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## 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.
- 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: N.A.

- 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.

Incompatible materials:

- None in particular.

Instructions as regards storage premises:

- Cool and adequately ventilated.
- Safety electric system.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### Community Occupational Exposure Limits (OEL)

	OEL Type	Country	Ceiling	Long Term mg/m3	Long Term ppm	Short Term mg/m3	Short Term ppm	Notes
Ethyl acetate CAS: 141-78-6	EU		C		400			
N-butyl acetate CAS: 123-86-4	MAK	UNITED ARAB EMIRATES	C	480	100	480	100	
	MAK	ALBANIA	C	480	100	960	200	
Toluene CAS: 108-88-3	EU		C	192	50	384	100	
1-ethoxy-2-propanol acetate CAS: 98516-30-4	EU		C	300	50			

#### Predicted No Effect Concentration (PNEC) values

	PNEC LIMIT	Exposure Route	Exposure Frequency	Remark
Ethyl acetate CAS: 141-78-6	0.2 g/kg	Food chain		
	0.148 mg/kg	Soil (agricultural)		
	0.24 mg/l	Water		
	0.02 mg/l	Water		
	1.15 mg/kg	Air		
	0.115 mg/kg	Marine water sediments		
	650 mg/l	Microorganisms in sewage treatments		

N-butyl acetate CAS: 123-86-4	0.09 mg/kg	Soil (agricultural)
	0.18 mg/l	Water
	0.36 mg/l	WATER, INTERMITTING RELEASE
	0.018 mg/l	Water
	0.981 mg/kg	Air
	0.098 mg/kg	Marine water sediments
Toluene CAS: 108-88-3	35.6 mg/l	Microorganisms in sewage treatments
	0.68 mg/l	Water
	0.68 mg/l	WATER, INTERMITTING RELEASE
	0.68 mg/l	Water
	16.39 mg/kg	Air
	16.39 mg/kg	Marine water sediments
1-ethoxy-2-propanol acetate CAS: 98516-30-4	13.61 mg/l	Microorganisms in sewage treatments
	1.34 mg/kg	Soil (agricultural)
	1.3 mg/l	Water
	0.13 mg/l	Water
	6.4 mg/kg	Air
	0.64 mg/kg	Marine water sediments

#### Derived No Effect Level (DNEL) values

	<b>Worker Industry</b>	<b>Worker Professional</b>	<b>Consumer</b>	<b>Exposure Route</b>	<b>Exposure Frequency</b>	<b>Remark</b>
Ethyl acetate CAS: 141-78-6	1468 mg/m3		734 mg/m3	Human Inhalation		Short Term, local effects
	1468 mg/m3		734 mg/m3	Human Inhalation		Short Term, systemic effects
	63 mg/kg		37 mg/kg	Human Dermal		Long Term, systemic effects
	734 mg/m3		367 mg/m3	Human Inhalation		Long Term, local effects
	734 mg/m3		367 mg/m3	Human Inhalation		Long Term, systemic effects
			4.5 mg/kg	Human Oral		Long Term, systemic effects
N-butyl acetate CAS: 123-86-4				Human Dermal		Short Term, local effects
	11 mg/kg		6 mg/kg	Human Dermal		Short Term, systemic effects
	600 mg/m3		300 mg/m3	Human Inhalation		Short Term, local effects
	600 mg/m3		300 mg/m3	Human Inhalation		Short Term, systemic effects
			2 mg/kg	Human Oral		Short Term, systemic effects
	11 mg/kg		6 mg/kg	Human Dermal	Human Dermal	Long Term, local effects Long Term, systemic effects

	300 mg/m <sup>3</sup>	35.7 mg/m <sup>3</sup>	Human Inhalation	Long Term, local effects
	300 mg/m <sup>3</sup>	35.7 mg/m <sup>3</sup>	Human Inhalation	Long Term, systemic effects
		2 mg/kg	Human Oral	Long Term, systemic effects
Toluene CAS: 108-88-3	384 mg/m <sup>3</sup>	226 mg/m <sup>3</sup>	Human Inhalation	Short Term, local effects
	384 mg/m <sup>3</sup>	226 mg/m <sup>3</sup>	Human Inhalation	Short Term, systemic effects
	384 mg/kg	226 mg/kg	Human Dermal	Long Term, systemic effects
	192 mg/m <sup>3</sup>	56.5 mg/m <sup>3</sup>	Human Inhalation	Long Term, local effects
	192 mg/m <sup>3</sup>	56.5 mg/m <sup>3</sup>	Human Inhalation	Long Term, systemic effects
		8.13 mg/kg	Human Oral	Long Term, systemic effects
1-ethoxy-2-propanol acetate CAS: 98516-30-4	608 mg/m <sup>3</sup>	365 mg/m <sup>3</sup>	Human Inhalation	Short Term, systemic effects
	103 mg/kg	62 mg/kg	Human Dermal	Long Term, systemic effects
	302 mg/m <sup>3</sup>	181 mg/m <sup>3</sup>	Human Inhalation	Long Term, systemic effects
		13.1 mg/kg	Human Oral	Long Term, systemic effects

Appropriate engineering controls: N.A.

#### 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:

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

Respiratory protection:

Use adequate protective respiratory equipment.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Physical State: Liquid

Appearance and colour: Liquid Transparent

Odour: Characteristic

Odour threshold: N.A.

pH: Not Relevant

Melting point / freezing point: -90 °C (-130 °F)

Initial boiling point and boiling range: 80 °C (176 °F)

Flash point: -18°C ≤ T < 23°C

Evaporation rate: N.A.

Upper/lower flammability or explosive limits: N.A.

Vapour density: 3

Vapour pressure: N.A.

Relative density: 0.93 g/ml

Solubility in water: Insoluble

Solubility in oil: N.A.

Partition coefficient (n-octanol/water): N.A.

Auto-ignition temperature: 420.00 °C

Decomposition temperature: N.A.

Viscosity: N.A.  
Explosive properties: N.A.  
Oxidizing properties: No  
Solid/gas flammability: data not applicable  
VOC content (g/L) in the product (2010/75/UE) 778.41  
VOC content % in the product (2010/75/UE) 83.70

#### Other information

Substance Groups relevant properties N.A.  
Miscibility: N.A.  
Fat Solubility: N.A.  
Conductivity: N.A.

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## 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.

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## 11. TOXICOLOGICAL INFORMATION

### Information on toxicological effects

#### Toxicological Information of the Preparation

a) acute toxicity	Not classified Based on available data, the classification criteria are not met
b) skin corrosion/irritation	The product is classified: Skin irritation, Category 2(H315)
c) serious eye damage/irritation	The product is classified: Eye irritation, Category 2A(H319)
d) respiratory or skin sensitisation	Not classified Based on available data, the classification criteria are not met
e) germ cell mutagenicity	Not classified Based on available data, the classification criteria are not met
f) carcinogenicity	Not classified Based on available data, the classification criteria are not met
g) reproductive toxicity	The product is classified: Reproductive toxicity, Category 2(H361)
h) STOT-single exposure	The product is classified: Specific target organ toxicity following single exposure, Category 3(H336)
i) STOT-repeated exposure	The product is classified: Specific target organ toxicity following repeated exposure, Category 2(H373)
j) aspiration hazard	The product is classified: Aspiration hazard, Category 1(H304)

#### Toxicological information on main components of the mixture:

Ethyl acetate	a) acute toxicity	LD50 Oral Rat 4934 mg/kg
	b) skin corrosion/irritation	LD50 Skin Rabbit > 20000 mg/kg
	j) aspiration hazard	LC50 Inhalation Vapour Rat > 22.5 mg/l 6h
N-butyl acetate	a) acute toxicity	LD50 Oral Rat 10760 mg/kg
	b) skin corrosion/irritation	LD50 Skin Rabbit > 14112 mg/kg
	j) aspiration hazard	LC50 Inhalation Vapour Rat > 21.1 mg/l 4h
Toluene	a) acute toxicity	LD50 Oral Rat 636 mg/kg
	j) aspiration hazard	LC50 Inhalation Vapour Rat 49 mg/l 4h

1-ethoxy-2-propanol acetate a) acute toxicity LD50 Oral Rat > 5000 mg/kg

b) skin corrosion/irritation LD50 Skin Rabbit > 5000 mg/kg

**Substance(s) listed on the IARC Monographs:**

Toluene Group 3

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

None

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

None

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

None

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**12. ECOLOGICAL INFORMATION**

**Toxicity**

Adopt good working practices, so that the product is not released into the environment.

Eco-Toxicological Information:

**List of Eco-Toxicological properties of the product**

Not classified for environmental hazards.

No data available for the product

**List of Eco-Toxicological properties of the components**

Component	Ident. Numb.	Ecotox Data
Ethyl acetate	CAS: 141-78-6 - EINECS: 205- 500-4 - INDEX: 607-022-00-5	a) Aquatic acute toxicity : EC50 Daphnia 165 mg/L 48h - Daphnia magna  a) Aquatic acute toxicity : LC50 Fish 230 mg/L 96h - Fish b) Aquatic chronic toxicity : NOEC Algae > 100 mg/L b) Aquatic chronic toxicity : NOEC Daphnia 2.4 mg/L - Daphnia pulex
N-butyl acetate	CAS: 123-86-4 - EINECS: 204- 658-1 - INDEX: 607-025-00-1	a) Aquatic acute toxicity : EC50 Daphnia 44 mg/L 48h  b) Aquatic chronic toxicity : IC50 Algae 397 mg/L 72h - Alga a) Aquatic acute toxicity : LC50 Fish 18 mg/L 96h - Fish
Toluene	CAS: 108-88-3 - EINECS: 203- 625-9 - INDEX: 601-021-00-3	a) Aquatic acute toxicity : EC50 Daphnia 11.6 mg/L 48h  b) Aquatic chronic toxicity : IC50 Algae 12.5 mg/L 72h b) Aquatic chronic toxicity : NOEC 1 mg/L
1-ethoxy-2-propanol acetate	CAS: 98516-30- 4 - EINECS: 259-370-9 - INDEX: 603- 177-00-8	a) Aquatic acute toxicity : EC50 Daphnia > 100 mg/L 48h  b) Aquatic chronic toxicity : IC50 Algae > 100 mg/L 72h a) Aquatic acute toxicity : LC50 Fish > 100 mg/L 96h

**Persistence and degradability**

Component	Persitence/Degradability:	Value
Ethyl acetate	Readily biodegradable	0
N-butyl acetate	Readily biodegradable	0
Toluene	Readily biodegradable	0
1-ethoxy-2-propanol acetate	Readily biodegradable	0



## Bioaccumulative potential

Component	Test	Value
N-butyl acetate		1.27
Toluene	BCF - Bioconcentration factor	8.32

## Mobility in soil

N.A.

## Other adverse effects

N.A.

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## 13. DISPOSAL CONSIDERATIONS

### Waste treatment methods

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

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## 14. TRANSPORT INFORMATION

### UN number

ADR-UN number: 1263

DOT-UN Number: UN1263

IATA-Un number: 1263

IMDG-Un number: 1263

### UN proper shipping name

ADR-Shipping Name: PAINT

DOT Proper Shipping Name: PAINT

IATA-Technical name: PAINT

IMDG-Technical name: PAINT

### Transport hazard class(es)

ADR-Class: 3

DOT Hazard Class: 3

IATA-Class: 3

IMDG-Class: 3

### Packing group

ADR-Packing Group: II

ADR exempt: II

IATA-Packing group: II

IMDG-Packing group: II

### Environmental hazards

Marine pollutant: No

Environmental Pollutant: N.A.

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

N.A.

### Special precautions

Department of Transportation (DOT):

DOT-Special Provision(s): 149, 367, B52, B131, IB2, T4, 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 exempt: No

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: 3L  
IATA-Special Provisions: A3 A72 A192

Sea (IMDG):

IMDG-Stowage Code: Category B  
IMDG-Stowage Note: -  
IMDG-Subsidiary hazards: -  
IMDG-Special Provisions: 163 367  
IMDG-Page: N/A  
IMDG-Label: N/A  
IMDG-EMS: F-E, S-E  
IMDG-MFAG: N/A

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## 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:

Ethyl acetate	is listed in TSCA	Section 8b
N-butyl acetate	is listed in TSCA	Section 8b
Toluene	is listed in TSCA	Section 8a - CAIR Section 8d HSDR Section 8b
1-ethoxy-2-propanol acetate	is listed in TSCA	Section 8b

#### SARA - Superfund Amendments and Reauthorization Act

##### Section 302 - Extremely Hazardous Substances:

No substances listed

##### Section 304 - Hazardous substances:

Ethyl acetate  
N-butyl acetate  
Toluene

##### Section 313 - Toxic chemical list:

Toluene

#### CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act

##### Substance(s) listed under CERCLA:

Ethyl acetate	Reportable quantity:	5000	pounds
N-butyl acetate	Reportable quantity:	5000	pounds
Toluene	Reportable quantity:	1000	pounds
	Reportable quantity for mixture:	5000	pounds

#### CAA - Clean Air Act

##### CAA listed substances:

Ethyl acetate	is listed in CAA	Section 111
N-butyl acetate	is listed in CAA	Section 111
Toluene	is listed in CAA	Section 111 Section 112(b) - HAP Section 112(b) - HON

#### CWA - Clean Water Act

##### CWA listed substances:

Ethyl acetate is listed in CWA Section 304

N-butyl acetate	is listed in CWA	Section 304	Section 311
Toluene	is listed in CWA	Section 304	Section 307
		Section 311	CWA Priority Pollutants

## USA - State specific regulations

### California Proposition 65

#### Substance(s) listed under California Proposition 65:

Toluene Listed as reproductive toxicant

### Massachusetts Right to know

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

Ethyl acetate  
N-butyl acetate  
Toluene

### Pennsylvania Right to know

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

Ethyl acetate  
N-butyl acetate  
Toluene

### New Jersey Right to know

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

Ethyl acetate  
N-butyl acetate  
Toluene

## 16. OTHER INFORMATION

Code	Description
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.

Code	Hazard class and hazard category	Description
A.10/1	Asp. Tox. 1	Aspiration hazard, Category 1
A.2/2	Skin Irrit. 2	Skin irritation, Category 2
A.3/2A	Eye Irrit. 2A	Eye irritation, Category 2A
A.7/2	Repr. 2	Reproductive toxicity, Category 2
A.8/3	STOT SE 3	Specific target organ toxicity following single exposure, Category 3
A.9/2	STOT RE 2	Specific target organ toxicity following repeated exposure, Category 2
B.6/2	Flam. Liq. 2	Flammable Liquids — Category 2
B.6/3	Flam. Liq. 3	Flammable Liquids — Category 3
US-HAE/C3	Aquatic Chronic 3	Chronic (long term) aquatic hazard, category 3

Safety Data Sheet dated: 1/16/2024 - version 2

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality. The information relates only to the specific material and may not be valid for such material used in combination with any other material or in any process.

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 MSDS cancels and replaces any preceding release.

#### 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.  
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).  
GefStoffVO: Ordinance on Hazardous Substances, 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.

The information in this SDS is provided all the relevant data fully and truly. However, the information is provided without any warranty on their absolute extensiveness and accuracy. This SDS was prepared to provide safety preventive measures for the users who have got professional training. The personal user who obtained this SDS should make independent judgment for the applicability of this SDS under special conditions. In these special cases, we do not assume responsibility for the damage.

**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
- 16. OTHER INFORMATION



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## EXPOSURE SCENARIO : TOLUENE

### Exposure scenario number : 16

Attachment to safety data sheet as per Article 31 (section 7) of (EC) 1907/2006 - REACH regulation

Identified uses of the component **Toluene**

CAS: 108-88-3, EC: 203-625-9, INDEX: 601-021-00-3 e Nr. REACH: 01-2119471310-51-XXXX

Product for industrial or professional use in the formulation of thinners, paints, additives, hardeners and pastes for painting products.

### Data of substance

Physical state at 20°C	Liquid
Boiling point	111°C at 1013 hPa
Vapour pressure	30 hPa a 20°C
Biodegradation	Readily biodegradable

### Company data

Annual amount per site	230880 kg
Daily amount per site	982.47 kg
Yearly days of use	235 days
Duration and frequency of activity	480 min 5 days per week
Average temperature of use	20 °C
Process pressure	Ambient pressure
Local exhaust ventilation	Effectiveness : 70 %
Ventilation rate per hour	7
Wear chemically resistant gloves	Effectiveness : 80 %
Use of substance	Indoor use
Concentration of the substance in the products	Covers percentage substance in the product up to 99% (unless stated differently).

### Environment factors

Emission or release factor in water	0%
Emission or release factor in soil	0%
Dilution factor river	10
Dilution factor coast	100

### Sewage treatment plant

Type of plant	Municipal sewage treatment plant
Flow rate of sewage treatment plant	2000 m <sup>3</sup> /day
Sludge Treatment	Disposal or recovery

### **General exposure**

Adopt good general ventilation norms, both natural by opening doors and windows, and forced ventilation using an electrically powered ventilation system.

Ensure that transfers of material are subject to restraining measures or suction ventilation.

Use suitable eye protection. In case of repeated exposure of the skin to the substance, wear protective gloves as per EN 374 norms.

## **1 - Short title of Exposure Scenario : Formulation & (re)packing of substances and mixtures**

### **Main User Groups**

SU3: Industrial uses

### **Sector of End-Use**

SU10: Formulation

### **Process Categories**

PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions.

PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition.

PROC4: Chemical production where opportunity for exposure arises.

PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities.

PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities.

PROC9: Transfer of substance or mixture into small containers (dedicated filling line, including weighing).

PROC15: Use as laboratory reagent

### **Environmental Release Categories**

ERC2: Formulation into mixture

## **2 - Short title of exposure scenario: Use in paints and related products**

### **Main User Groups**

SU3: Industrial uses

### **Process Categories**

PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions

PROC4: Chemical production where opportunity for exposure arises

PROC7: Industrial spraying

PROC10: Roller application or brushing

PROC13: Treatment of articles by dipping and pouring

PROC15: Use as laboratory reagent

### **Environmental Release Categories**

ERC4: Use of non-reactive processing aid at industrial site (no inclusion into or onto article)

### **3 - Short title of exposure scenario: Use in paints and related products**

#### **Main User Groups**

SU22: Professional uses

#### **Process Categories**

PROC10: Roller application or brushing

PROC11: Non industrial spraying

PROC13: Treatment of articles by dipping and pouring

PROC15: Use as laboratory reagent

#### **Environmental Release Categories**

ERC8a: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)

#### **Key**

**SU** Sector of use category

**PROC** Process Categories

**ERC** Environmental Release Categories

**Note: it is strongly advised against uses not covered in the exposure scenario.**

**ICA S.p.A. - Regulatory affairs**

**Data elaboration: 13/12/2019**

**Version 1**



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## EXPOSURE SCENARIO: 1-ETHOXY-2-PROPANOL ACETATE

### Exposure scenario number: 8

Attachment to safety data sheet as per Article 31 (section 7) of (EC) 1907/2006 - REACH regulation

Identified uses of the component **1-ethoxy-2-propanol acetate**

CAS: 54839-24-6, EC: 259-370-9, INDEX: 603-177-00-8 e Nr. REACH: 01-2119475116-39-XXXX

Product for industrial or professional use in the formulation of thinners, paints, additives, hardeners and pastes for painting products.

### Data of substance

Physical state at 20°C	Liquid
Boiling point	155°C (1.013 hPa)
Vapour pressure	2.02 hPa (20°C)
Biodegradation	Readily biodegradable

### Company data

Annual amount per site	140000 Kg
Daily amount per site	595.74 Kg
Yearly days of use	235 days
Duration and frequency of activity	480 min 5 days per week
Average temperature of use	20 °C
Process pressure	Ambient pressure
Local exhaust ventilation	Effectiveness: 70 %
Ventilation rate per hour	7
Wear chemically resistant gloves	Effectiveness: 80 %
Use of substance	Indoor use
Concentration of the substance in the products	Covers percentage substance in the product up to 100 % (unless stated differently).

### Environment factors

Emission or release factor in water	0%
Emission or release factor in soil	0%
Dilution factor river	10
Dilution factor coast	100

### Sewage treatment plant



Type of plant	Municipal sewage treatment plant
Flow rate of sewage treatment plant	2000 m <sup>3</sup> /day
Sludge Treatment	Disposal or recovery

### **General exposure**

Adopt good general ventilation norms, both natural by opening doors and windows, and forced ventilation using an electrically powered ventilation system.

Ensure that transfers of material are subject to restraining measures or suction ventilation.

Use suitable eye protection. In case of repeated exposure of the skin to the substance, wear protective gloves as per EN 374 norms.

## **1 - Short title of Exposure Scenario: Distribution of substance**

### **Main User Groups**

SU3: Industrial uses

SU22: Professional uses

### **Process categories**

PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions

PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition

PROC4: Chemical production where opportunity for exposure arises

PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities

PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities

PROC15: Use as laboratory reagent

### **Environmental release categories**

ERC1: Manufacture of the substance

## **2 - Short title of Exposure Scenario : Formulation & (re)packing of substances and mixtures**

### **Main user groups**

SU3: Industrial uses

### **Sector of end-use**

SU10: Formulation

### **Process Categories**

PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions

PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition

PROC4: Chemical production where opportunity for exposure arises

PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities

PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities

PROC9: Transfer of substance or mixture into small containers (dedicated filling line, including weighing)

PROC15: Use as laboratory reagent

### **Environmental Release Categories**

ERC2: Formulation into mixture

### **3 - Short title of exposure scenario: Use in paints and related products**

#### **Main users groups**

SU3: Industrial uses

#### **Process Categories**

PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions

PROC4: Chemical production where opportunity for exposure arises

PROC7: Industrial spraying

PROC10: Roller application or brushing

PROC13: Treatment of articles by dipping and pouring

PROC15: Use as laboratory reagent

#### **Environmental Release Categories**

ERC4: Use of non-reactive processing aid at industrial site (no inclusion into or onto article)

### **4 - Short title of exposure scenario: Use in paints and related products**

#### **Main user groups**

SU22: Professional uses

#### **Process Categories**

PROC10: Roller application or brushing

PROC11: Non industrial spraying

PROC13: Treatment of articles by dipping and pouring

PROC15: Use as laboratory reagent

PROC19: Manual activities involving hand contact

#### **Environmental Release Categories**

ERC8a: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)

#### **Key**

**SU** Sector of use category

**PROC** Process Categories

**ERC** Environmental Release Categories

**Note: it is strongly advised against uses not covered in the exposure scenario**

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**Data elaboration: 03/12/2019**

**Version 1**



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## EXPOSURE SCENARIO: ETHYL ACETATE

### Exposure scenario number: 2

Attachment to safety data sheet as per Article 31 (section 7) of (EC) 1907/2006 - REACH regulation

Identified uses of the component **Ethyl acetate**

CAS: 141-78-6 , EC: 205-500-4, INDEX: 607-022-00-5 e Nr. REACH: 01-2119475103-46-XXXX

Product for industrial or professional use in the formulation of thinners, paints, additives, hardeners and pastes for painting products.

### Data of substance

Physical state at 20°C	Liquid
Boiling point	77°C (1.013 hPa)
Vapour pressure	98 hPa (20°C)
Biodegradation	Readily biodegradable (Method BOD)

### Company data

Annual amount per site	1266901 Kg
Daily amount per site	5931.07 Kg
Yearly days of use	235 days
Duration and frequency of activity	480 min 5 days per week
Average temperature of use	20 °C
Process pressure	Ambient pressure
Local exhaust ventilation	Effectiveness: 70 %
Ventilation rate per hour	7
Wear chemically resistant gloves	Effectiveness: 80 %
Use of substance	Indoor use
Concentration of the substance in the products	Covers percentage substance in the product up to 100 % (unless stated differently).

### Environment factors

Emission or release factor in water	0%
Emission or release factor in soil	0%
Dimensions of receiving river	18.000 m3/day
Dilution factor river	10
Dilution factor coast	100

### Sewage treatment plant

Type of plant	Municipal sewage treatment plant
Flow rate of sewage treatment plant	2000 m <sup>3</sup> /day
Sludge Treatment	Disposal or recovery

### **General exposure**

Adopt good general ventilation norms, both natural by opening doors and windows, and forced ventilation using an electrically powered ventilation system.

Ensure that transfers of material are subject to restraining measures or suction ventilation.

Use suitable eye protection. In case of repeated exposure of the skin to the substance, wear protective gloves as per EN 374 norms.

## **1 - Short title of Exposure Scenario: Distribution of substance**

### **Main User Groups**

SU3: Industrial uses

SU22: Professional uses

### **Process categories**

PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions

PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition

PROC4: Chemical production where opportunity for exposure arises

PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities

PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities

PROC9: Transfer of substance or mixture into small containers (dedicated filling line, including weighing)

PROC15: Use as laboratory reagent

### **Environmental release categories**

ERC1: Manufacture of the substance

## **2 - Short title of Exposure Scenario : Formulation & (re)packing of substances and mixtures**

### **Main user groups**

SU3: Industrial uses

### **Sector of end-use**

SU10: Formulation

### **Process Categories**

PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions

PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition

PROC4: Chemical production where opportunity for exposure arises

PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities

PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities

PROC9: Transfer of substance or mixture into small containers (dedicated filling line, including weighing)

PROC15: Use as laboratory reagent

### **Environmental Release Categories**

ERC2: Formulation into mixture

### **3 - Short title of exposure scenario: Use in paints and related products**

#### **Main users groups**

SU3: Industrial uses

#### **Process Categories**

PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions

PROC4: Chemical production where opportunity for exposure arises

PROC7: Industrial spraying

PROC10: Roller application or brushing

PROC13: Treatment of articles by dipping and pouring

PROC15: Use as laboratory reagent

#### **Environmental Release Categories**

ERC4: Use of non-reactive processing aid at industrial site (no inclusion into or onto article)

### **4 - Short title of exposure scenario: Use in paints and related products**

#### **Main user groups**

SU22: Professional uses

#### **Process Categories**

PROC10: Roller application or brushing

PROC11: Non industrial spraying

PROC13: Treatment of articles by dipping and pouring

PROC15: Use as laboratory reagent

PROC19: Manual activities involving hand contact

#### **Environmental Release Categories**

ERC8a: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)

#### **Key**

**SU** Sector of use category

**PROC** Process Categories

**ERC** Environmental Release Categories

**Note: it is strongly advised against uses not covered in the exposure scenario**

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**Data elaboration: 19/09/2019**

**Version 1**



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## EXPOSURE SCENARIO: N-BUTYL ACETATE

### Exposure scenario number: 1

Attachment to safety data sheet as per Article 31 (section 7) of (EC) 1907/2006 - REACH regulation

Identified uses of the component **N-butyl acetate**

CAS: 123-86-4 , EC: 204-658-1 , INDEX: 607-025-00-1 e Nr. REACH: 01-2119485493-29-XXXX

Product for industrial or professional use in the formulation of thinners, paints, additives, hardeners and pastes for painting products.

### Data of substance

Physical state at 20°C	Liquid
Boiling point	125°C a 1.013 hPa
Vapour pressure	11.6 mbar a 20°C
Biodegradation	Readily biodegradable (Method OCSE 301D)

### Company data

Annual amount per site	1762195 Kg
Daily amount per site	7498.70 Kg
Yearly days of use	235 days
Duration and frequency of activity	480 min 5 days per week
Average temperature of use	20 °C
Process pressure	Ambient pressure
Local exhaust ventilation	Effectiveness: 70 %
Ventilation rate per hour	7
Wear chemically resistant gloves	Effectiveness: 80 %
Use of substance	Indoor use
Concentration of the substance in the products	Covers percentage substance in the product up to 100 % (unless stated differently).

### Environment factors

Emission or release factor in water	0%
Emission or release factor in soil	0%
Dimensions of receiving river	18.000 m3/day
Dilution factor river	10
Dilution factor coast	100

### Sewage treatment plant



Type of plant	Municipal sewage treatment plant
Flow rate of sewage treatment plant	2000 m <sup>3</sup> /day
Sludge Treatment	Disposal or recovery

### **General exposure**

Adopt good general ventilation norms, both natural by opening doors and windows, and forced ventilation using an electrically powered ventilation system.

Ensure that transfers of material are subject to restraining measures or suction ventilation.

Use suitable eye protection. In case of repeated exposure of the skin to the substance, wear protective gloves as per EN 374 norms.

## **1 - Short title of Exposure Scenario: Distribution of substance**

### **Main User Groups**

SU3: Industrial uses

SU22: Professional uses

### **Process categories**

PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions

PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition

PROC4: Chemical production where opportunity for exposure arises

PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities

PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities

PROC9: Transfer of substance or mixture into small containers (dedicated filling line, including weighing)

PROC15: Use as laboratory reagent

### **Environmental release categories**

ERC1: Manufacture of the substance

## **2 - Short title of Exposure Scenario : Formulation & (re)packing of substances and mixtures**

### **Main user groups**

SU3: Industrial uses

### **Sector of end-use**

SU10: Formulation

### **Process Categories**

PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions

PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition

PROC4: Chemical production where opportunity for exposure arises

PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities

PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities

PROC9: Transfer of substance or mixture into small containers (dedicated filling line, including weighing)

PROC15: Use as laboratory reagent

### **Environmental Release Categories**

ERC2: Formulation into mixture

### **3 - Short title of exposure scenario: Use in paints and related products**

#### **Main users groups**

SU3: Industrial uses

#### **Process Categories**

PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions

PROC4: Chemical production where opportunity for exposure arises

PROC7: Industrial spraying

PROC10: Roller application or brushing

PROC13: Treatment of articles by dipping and pouring

#### **Environmental Release Categories**

ERC4: Use of non-reactive processing aid at industrial site (no inclusion into or onto article)

### **4 - Short title of exposure scenario: Use in paints and related products**

#### **Main user groups**

SU22: Professional uses

#### **Process Categories**

PROC10: Roller application or brushing

PROC11: Non industrial spraying

PROC13: Treatment of articles by dipping and pouring

PROC15: Use as laboratory reagent

PROC19: Manual activities involving hand contact

#### **Environmental Release Categories**

ERC8a: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)

#### **Key**

**SU** Sector of use category

**PROC** Process Categories

**ERC** Environmental Release Categories

**Note: it is strongly advised against uses not covered in the exposure scenario**

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**Data elaboration: 03/09/2019**

**Version 1**

