Safety Data Sheet
2K CLEAR SB POLYURETHANE BASECOAT
Safety Data Sheet dated: 8/26/2024 - version 2
Date of first edition: 9/8/2022

1. IDENTIFICATION

Product identifier

Mixture identification:

Trade name: 2K CLEAR SB POLYURETHANE BASECOAT

Other means of identification:

Trade code: FP283

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

Responsable: regulatoryaffairs@icaspa.com N.A.

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 3	Flammable liquid and vapour.
Skin irritation, Category 2	Causes skin irritation.
Eye irritation, Category 2A	Causes serious eye irritation.
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

Hazard pictograms and Signal Word

Danger

Hazard statements

H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H373	May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

P210	Keep away from heat/sparks/open flames/hot surfaces. — No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical / ventilating / lighting / equipment.

P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P260	Do not breathe dust / fume / gas /mist / vapours / spray.
P264	Wash hands and eyes thoroughly after handling.
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.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
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+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 493.55 g/l VOC.

Hazards not otherwise classified identified during the classification process:

None

Additional classification information

HMIS Health: 0 = MINIMAL
HMIS Flammability: 2 = Combustible 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
15-25 %	Xylene, mixture of isomers	CAS:1330-20-7 EC:215-535-7 Index:601-022-00-9	Flam. Liq. 3, H226; Asp. Tox. 1, H304; Acute Tox. 4, H312; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Acute Tox. 4, H332; STOT SE 3, H335; STOT RE 2, H373; Aquatic Chronic 3, H412	01-2119488216-32-XXXX
3-10 %	Ethyl acetate	CAS:141-78-6 EC:205-500-4	Flam. Liq. 2, H225; Eye Irrit. 2A, H319; STOT SE 3, H336	01-2119475103-46-XXXX

		Index:607-022-00-5		
3-10 %	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
0,25-1 %	Diamine based additive		Not classified as hazardous	01-2120164907-45-XXXX

4. FIRST AID MEASURES

Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

Remove contaminated clothing immediatley 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 opthalmologist 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).

5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media:

In case of fire, use a dry powder fire extinguisher to extinguish.

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.

7. HANDLING AND STORAGE

Precautions for safe handling

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

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.
Contamined 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.

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
Xylene, mixture of isomers CAS: 1330-20-7	EU		C	221	50	442	100	
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	
	EU		C	241.000	50.000	723.000	150.000	

Predicted No Effect Concentration (PNEC) values

	PNEC Limit	Exposure Route	Exposure Frequency	Remark
Xylene, mixture of isomers CAS: 1330-20-7	2.31 mg/kg	Soil (agricultural)		
	0.32 mg/l	Water		
	0.32 mg/l	Water		
	12.46 mg/kg	Air		
	12.46 mg/kg	Marine water sediments		
	6.58 mg/l	Microorganisms in sewage treatments		
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		
	35.6 mg/l	Microorganisms in sewage treatments		

Derived No Effect Level (DNEL) values

	Worker Industry	Worker Professional	Consumer	Exposure Route	Exposure Frequency	Remark
Xylene, mixture of isomers CAS: 1330-20-7	442 mg/m3		260	Human Inhalation	Short Term, local effects	
	442		260	Human Inhalation	Short Term, systemic effects	
				Human Dermal	Long Term, local effects	
	212 mg/kg		125 mg/kg	Human Dermal	Long Term, systemic effects	
	221		65.3	Human Inhalation	Long Term, local effects	
	221 mg/m3		65.3 mg/m3	Human Inhalation	Long Term, systemic effects	
			12.5 mg/kg	Human Oral	Long Term, systemic effects	
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	
				Human Dermal	Long Term, local effects	
	11 mg/kg		6 mg/kg	Human Dermal	Long Term, systemic effects	
	300 mg/m3		35.7 mg/m3	Human Inhalation	Long Term, local effects	
	300 mg/m3		35.7 mg/m3	Human Inhalation	Long Term, systemic effects	
			2 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: N.A.
Initial boiling point and boiling range: 80 °C (176 °F)
Flash point: 23°C ≤ T ≤ 60°C
Evaporation rate: N.A.
Upper/lower flammability or explosive limits: N.A.
Vapour density: > 3
Vapour pressure: N.A.
Relative density: 1.42 g/ml
Solubility in water: Insoluble
Solubility in oil: N.A.
Partition coefficient (n-octanol/water): N.A.
Auto-ignition temperature: N.A.
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/EU) 401.67
VOC content % in the product (2010/75/EU) 28.29

Other information

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

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 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	Not classified
		Based on available data, the classification criteria are not met
	h) STOT-single exposure	Not classified
		Based on available data, the classification criteria are not met
	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:

Xylene, mixture of isomers	a) acute toxicity	LD50 Oral Mouse 5627 mg/kg
		LC50 Inhalation Rat = 6700 mg/kg
	b) skin corrosion/irritation	LD50 Skin Rabbit > 5000 mg/kg
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
Diamine based additive	a) acute toxicity	LD50 Oral Rat > 2000 mg/kg
	b) skin corrosion/irritation	LD50 Skin Rat > 2000 mg/kg

Substance(s) listed on the IARC Monographs:

Xylene, mixture of isomers 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

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
Xylene, mixture of isomers	CAS: 1330-20-7 - EINECS: 215-535-7 - INDEX: 601-022-00-9	a) Aquatic acute toxicity : EC50 Daphnia 8.5 mg/L 48h
		a) Aquatic acute toxicity : LC50 Fish 2.6 mg/L 96h - Fish
		b) Aquatic chronic toxicity : NOEC 1.57 mg/L
		b) Aquatic chronic toxicity : NOEC Fish > 1.3 mg/L
Ethyl acetate	CAS: 141-78-6 -	a) Aquatic acute toxicity : EC50 Daphnia 165 mg/L 48h - Daphnia magna

	EINECS: 205-500-4 - INDEX: 607-022-00-5	
		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

Persistence and degradability

Component	Persitence/Degradability:	Value
Xylene, mixture of isomers	Readily biodegradable	0
Ethyl acetate	Readily biodegradable	0
N-butyl acetate	Readily biodegradable	0
Diamine based additive	Non-readily biodegradable	0

Bioaccumulative potential

Component	Value
N-butyl acetate	1.27

Mobility in soil

N.A.

Other adverse effects

N.A.

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.

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: III
DOT Packing Group: III
IATA-Packing group: III
IMDG-Packing group: III

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): 367, B1, B52, B131, IB3, T2, TP1, TP29

DOT Label(s): 3

DOT Symbol: N/A

DOT Cargo Aircraft: 220 L

DOT Passenger Aircraft: 60 L

DOT Bulk: 242

DOT Non-Bulk: 173

Road and Rail (ADR-RID):

ADR-Label: 3

ADR - Hazard identification number: 30

ADR-Transport category (Tunnel restriction code): 3 (D/E)

Air (IATA):

IATA-Passenger Aircraft: 355

IATA-Cargo Aircraft: 366

IATA-Label: 3

IATA-Subsidiary hazards: -

IATA-Erg: 3L

IATA-Special Provisions: A3 A72 A192

Sea (IMDG):

IMDG-Stowage Code: Category A

IMDG-Stowage Note: -

IMDG-Subsidiary hazards: -

IMDG-Special Provisions: 163 223 367 955

IMDG-EMS: F-E, [S-E]

15. REGULATORY INFORMATION

USA - Federal regulations

TSCA - Toxic Substances Control Act

TSCA inventory:

All component(s) are listed on the TSCA inventory.

TSCA listed substances:

Xylene, mixture of isomers	is listed in TSCA	Section 8b
Ethyl acetate	is listed in TSCA	Section 8b
N-butyl acetate	is listed in TSCA	Section 8b
Diamine based additive	is listed in TSCA	Section 5a - SNUR (40 CFR 721.11005)

SARA - Superfund Amendments and Reauthorization Act

Section 302 - Extremely Hazardous Substances:

No substances listed

Section 304 - Hazardous substances:

Xylene, mixture of isomers

Ethyl acetate

N-butyl acetate

Section 313 - Toxic chemical list:

Xylene, mixture of isomers

CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act

Substance(s) listed under CERCLA:

Xylene, mixture of isomers	Reportable quantity:	100	pounds
Ethyl acetate	Reportable quantity:	5000	pounds
N-butyl acetate	Reportable quantity:	5000	pounds
	Reportable quantity for	531.35	pounds

mixture:

CAA - Clean Air Act

CAA listed substances:

Xylene, mixture of isomers	is listed in CAA	Section 111 Section 112(b) - HAP Section 112(b) - HON
Ethyl acetate	is listed in CAA	Section 111
N-butyl acetate	is listed in CAA	Section 111

CWA - Clean Water Act

CWA listed substances:

Xylene, mixture of isomers	is listed in CWA	Section 304 Section 311
Ethyl acetate	is listed in CWA	Section 304
N-butyl acetate	is listed in CWA	Section 304 Section 311

USA - State specific regulations

California Proposition 65

Substance(s) listed under California Proposition 65:

No substances listed

Massachusetts Right to know

Substance(s) listed under Massachusetts Right to know:

Xylene, mixture of isomers

Ethyl acetate

N-butyl acetate

Pennsylvania Right to know

Substance(s) listed under Pennsylvania Right to know:

Xylene, mixture of isomers

Ethyl acetate

N-butyl acetate

New Jersey Right to know

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

Xylene, mixture of isomers

Ethyl acetate

N-butyl acetate

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.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
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.1/4/Dermal	Acute Tox. 4	Acute toxicity (dermal), Category 4
A.1/4/Inhal	Acute Tox. 4	Acute toxicity (inhalation), Category 4
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.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: 8/26/2024 - 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
- 3. COMPOSITION/INFORMATION ON INGREDIENTS
- 4. FIRST AID MEASURES
- 6. ACCIDENTAL RELEASE MEASURES
- 7. HANDLING AND STORAGE
- 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
- 9. PHYSICAL AND CHEMICAL PROPERTIES
- 11. TOXICOLOGICAL INFORMATION
- 12. ECOLOGICAL INFORMATION
- 14. TRANSPORT INFORMATION
- 15. REGULATORY INFORMATION
- 16. OTHER INFORMATION

EXPOSURE SCENARIO: XYLENE, MIXTURE OF ISOMERS

Exposure scenario number: 18

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

Identified uses of the component **Xylene, mixture of isomers**

CAS: 1330-20-7 , EC: 215-535-7 , INDEX: 601-022-00-9 e Nr. REACH: 01-2119488216-32-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	135-145°C (1.013 hPa)
Vapour pressure	6.5-6.9 hPa a 20°C
Biodegradation	Readily biodegradable

Company data

Annual amount per site	1278600 kg
Daily amount per site	5440.85 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 85 % (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 m3/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 elecrtically 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 users 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 stronlgy advised against uses not covered in the exposure scenario

ICA S.p.A. - Regulatory affairs

Data elaboration: 17/12/2019

Version 1

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 m3/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 elecrtically 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 stronlgy advised against uses not covered in the exposure scenario

ICA S.p.A. - Regulatory affairs

Data elaboration: 19/09/2019

Version 1

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 m3/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 elecrtically 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 stronlgy advised against uses not covered in the exposure scenario

ICA S.p.A. - Regulatory affairs

Data elaboration: 03/09/2019

Version 1