Safety Data Sheet
WB ANTI-YELLOWING HARDENER FOR WB PRODUCTS
Safety Data Sheet dated: 2/20/2025 - version 1
Date of first edition: 2/20/2025

1. IDENTIFICATION

Product identifier

Mixture identification:

Trade name: WB ANTI-YELLOWING HARDENER FOR WB PRODUCTS

Other means of identification:

Trade code: CA519

Recommended use of the chemical and restrictions on use

Recommended use: Hardener for professional/industrial use

Restrictions on use: Uses not foreseen by the recommended uses.

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.
Acute toxicity (inhalation), Category 4	Harmful if inhaled.
Skin Sensitization, Category 1B	May cause an allergic skin reaction.
Specific target organ toxicity following single exposure, Category 3	May cause respiratory irritation.
Specific target organ toxicity following single exposure, Category 3	May cause drowsiness or dizziness.

Label elements

Hazard pictograms and Signal Word

Warning

Hazard statements

H226	Flammable liquid and vapour.
H317	May cause an allergic skin reaction.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.

Precautionary statements

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.
P261	Avoid breathing dust / fume / gas / mist / vapours / spray.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing must not be allowed out of the workplace.
P280	Wear protective gloves/clothing and eye/face protection.
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.
P312	Call a POISON CENTER / doctor / if you feel unwell.
P321	Specific treatment (see safety data sheet).
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P363	Wash contaminated clothing before reuse.
P370+P378	In case of fire, use 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)

This product contains max 333.70 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
50-75 %	HDI oligomers, isocyanurate	CAS:28182-81-2 EC:931-274-8	Skin Sens. 1, H317; Acute Tox. 4, H332; STOT SE 3, H335	01-2119485796-17-XXXX
25-35 %	1-methoxy-2-propanol acetate	CAS:108-65-6 EC:203-603-9 Index:607-195-00-7	Flam. Liq. 3, H226; STOT SE 3, H336	01-2119475791-29-XXXX
3-10 %	Aliphatic polyisocyanate	CAS:666723-27-9	Acute Tox. 4, H332; Skin Sens. 1B, H317; STOT SE 3, H335; Aquatic Chronic 3, H412	

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.

In case of eyes contact:

Wash immediately with water. Obtain a medical examination immediately.

In case of Ingestion:

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

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

N.A.

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.

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

Provide adequate ventilation.

Use appropriate respiratory protection.

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.

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.

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 35 °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	Ceiling	Long Term mg/m3	Long Term ppm	Short Term mg/m3	Short Term ppm	Notes
1-methoxy-2-propanol acetate CAS: 108-65-6	EU	C	275	50	550	100	

Predicted No Effect Concentration (PNEC) values

	PNEC Limit	Exposure Route	Exposure Frequency	Remark
1-methoxy-2-propanol acetate CAS: 108-65-6	0.29 mg/kg	Soil (agricultural)		
	0.635 mg/l	Water		
	6.35 mg/l	WATER, INTERMITTING RELEASE		
	0.064 mg/l	Water		
	3.29 mg/kg	Air		
	0.329 mg/kg	Marine water sediments		
	100 mg/l	Microorganisms in sewage treatments		

Derived No Effect Level (DNEL) values

	Worker Industry	Worker Professional	Consumer	Exposure Route	Exposure Frequency	Remark
1-methoxy-2-propanol acetate CAS: 108-65-6			500 mg/kg	Human Oral	Short Term, systemic effects	
	796 mg/kg		320 mg/kg	Human Dermal	Long Term, systemic effects	
	550 mg/m3		33 mg/m3	Human Inhalation	Long Term, local effects	
	275 mg/m3		33 mg/m3	Human Inhalation	Long Term, systemic effects	
			36 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: 148 °C (298 °F)
Flash point: 23°C ≤ T ≤ 60°C - ASTM D7236-16a (closed cup)
Evaporation rate: N.A.
Upper/lower flammability or explosive limits: N.A.
Vapour density: N.A.
Vapour pressure: N.A.
Relative density: 1.11 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: N.A.
VOC content (g/L) in the product (2010/75/EU) 333.70
VOC content % in the product (2010/75/EU) 30.06

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	The product is classified: Acute toxicity (inhalation), Category 4(H332)
b) skin corrosion/irritation	Not classified
	Based on available data, the classification criteria are not met
c) serious eye damage/irritation	Not classified
	Based on available data, the classification criteria are not met
d) respiratory or skin sensitisation	The product is classified: Skin Sensitization, Category 1B(H317)
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	The product is classified: Specific target organ toxicity following single exposure, Category 3(H335), Specific target organ toxicity following single exposure, Category 3(H336)
i) STOT-repeated exposure	Not classified
	Based on available data, the classification criteria are not met

j) aspiration hazard	Not classified	
	Based on available data, the classification criteria are not met	

Toxicological information on main components of the mixture:

1-methoxy-2-propanol acetate	a) acute toxicity	LD50 Oral Rat > 5000 mg/kg
	b) skin corrosion/irritation	LD50 Skin Rabbit > 5000 mg/kg
	j) aspiration hazard	LC50 Inhalation Vapour Rat > 10.6 mg/l 6h
Aliphatic polyisocyanate	a) acute toxicity	LD50 Oral Rat > 5000 mg/kg
	j) aspiration hazard	LC50 Inhalation Rat 0.39 mg/l 4h

Substance(s) listed on the IARC Monographs:

None

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
1-methoxy-2-propanol acetate	CAS: 108-65-6 - EINECS: 203-603-9 - INDEX: 607-195-00-7	a) Aquatic acute toxicity : EC50 Daphnia > 500 mg/L 48h - Daphnia Magna
		b) Aquatic chronic toxicity : IC50 Algae > 1000 mg/L 72h - Selenastrum capricornutum
		a) Aquatic acute toxicity : LC50 Fish > 100 mg/L 96h - Fish
		b) Aquatic chronic toxicity : NOEC Fish 475 mg/L - Oryzias latipes
Aliphatic polyisocyanate	CAS: 666723-27-9	a) Aquatic acute toxicity : EC50 Daphnia > 100 mg/L 48h - Daphnia magna
		b) Aquatic chronic toxicity : IC50 Algae 72 mg/L 72h - Desmodesmus subspicatus
		a) Aquatic acute toxicity : LC50 Fish 35.2 mg/L 96h - Fish

Persistence and degradability

N.A.

Bioaccumulative potential

N.A.

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: 1866

DOT-UN Number: UN1866

IATA-Un number: 1866

IMDG-Un number: 1866

UN proper shipping name

ADR-Shipping Name: RESIN SOLUTION

DOT Proper Shipping Name: Resin solution, flammable

IATA-Technical name: RESIN SOLUTION

IMDG-Technical name: RESIN SOLUTION

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): B1, B52, IB3, T2, TP1

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

Sea (IMDG):

IMDG-Stowage Code: Category A

IMDG-Stowage Note: -

IMDG-Subsidiary hazards: -

IMDG-Special Provisions: 223 955

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:

1-methoxy-2-propanol acetate	is listed in TSCA	Section 8d HSDR Section 8b Section 8a - PAIR
Aliphatic polyisocyanate	is listed in TSCA	Section 8b

SARA - Superfund Amendments and Reauthorization Act

Section 302 - Extremely Hazardous Substances:

No substances listed

Section 304 - Hazardous substances:

No substances listed

Section 313 - Toxic chemical list:

No substances listed

CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act

Substance(s) listed under CERCLA:

No substances listed

CAA - Clean Air Act

CAA listed substances:

No substances listed

CWA - Clean Water Act

CWA listed substances:

No substances listed

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:

No substances listed

Pennsylvania Right to know

Substance(s) listed under Pennsylvania Right to know:

No substances listed

New Jersey Right to know

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

No substances listed

16. OTHER INFORMATION

Code	Description
H226	Flammable liquid and vapour.
H317	May cause an allergic skin reaction.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H412	Harmful to aquatic life with long lasting effects.

Code	Hazard class and hazard category	Description

A.1/4/Inhal	Acute Tox. 4	Acute toxicity (inhalation), Category 4
A.4.2/1	Skin Sens. 1	Skin Sensitization, Category 1
A.4.2/1B	Skin Sens. 1B	Skin Sensitization, Category 1B
A.8/3	STOT SE 3	Specific target organ toxicity following single exposure, Category 3
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: 2/20/2025 - version 1

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.

EXPOSURE SCENARIO : 1-METHOXY-2-PROPANOL ACETATE

Exposure scenario number : 14

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

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

CAS: 108-65-6 , EC: 203-603-9 , INDEX: 607-195-00-7 e Nr. REACH: 01-2119475791-29-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	145.8°C (1.013 hPa)
Vapour pressure	3.56 hPa (20°C)
Biodegradation	Readily biodegradable (Method OECD 301F)

Company data

Annual amount per site	182905 Kg
Daily amount per site	778.32 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 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

PROC15: Use as laboratory reagent

Environmental release categories

ERC1: Manufacture of the substance

2 - Short title of Exposure Scenario 2: 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

ERC5: Use at industrial site leading to inclusion into/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: 05/11/2019

Version 1