# **SAFETY DATA SHEET**

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name : ACROLON 1850 Acrylic Epoxy Finish - Base

**Product code** : A1850B

1.2 Relevant identified uses of the substance or mixture and uses advised against

**Material uses** : Paint or paint related material.

: Industrial use only.

# 1.3 Details of the supplier of the safety data sheet

Sherwin-Williams UK Limited - Protective & Marine

Coatings Division EMEAI

Tower Works Kestor Street Bolton BL2 2AL

United Kingdom +44 (0) 1204 521771

The Sherwin-Williams Company Inver France SAS 2 Rue Jean Revaus - BP 80088 - 79102

Thouars CEDEX France

e-mail address of person

: hse.pm.emea@sherwin.com

responsible for this SDS

**Supplier** 

**Telephone number** : +(44)-870-8200 418

Hours of operation : Emergency contact available 24 hours a day

#### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

**Product definition** : Mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Flam. Liq. 3, H226 Eye Irrit. 2, H319

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

#### 2.2 Label elements

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#### SECTION 2: Hazards identification

Hazard pictograms





Signal word : Warning

Hazard statements Flammable liquid and vapor.

Causes serious eye irritation.

**Precautionary statements** 

Prevention : Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open

flames and other ignition sources. No smoking.

: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact Response

lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get

medical advice or attention.

Storage : Not applicable.

Disposal : Dispose of contents and container in accordance with all local, regional, national

and international regulations.

Hazardous ingredients : 2-methylpropan-1-ol

Supplemental label Contains n-butyl acrylate. May produce an allergic reaction.

elements Warning! Hazardous respirable droplets may be formed when sprayed. Do not

breathe spray or mist. FOR INDUSTRIAL USE ONLY

#### Special packaging requirements

Not applicable.

#### 2.3 Other hazards

This mixture does not contain any substances that are assessed to be a PBT or a

vPvB.

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of

0.1% or higher.

: None known.

Other hazards which do not result in classification

#### SECTION 3: Composition/information on ingredients

#### 3.2 Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
n-Butyl Acetate	REACH #: 01-2119485493-29 EC: 204-658-1 CAS: 123-86-4 Index: 607-025-00-1	≥10 - ≤18	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	-	[1] [2]
Xylene, mixed isomers	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9	≤5	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 Asp. Tox. 1, H304	ATE [Dermal] = 1100 mg/kg ATE [Inhalation (gases)] = 6700 ppm	[1] [2]
Ethyl 3-Ethoxypropionate	REACH #: 01-2119463267-34 EC: 212-112-9 CAS: 763-69-9	≤1.7	Flam. Liq. 3, H226 EUH066	EUH066: C ≥ 20%	[1]

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#### **SECTION 3: Composition/information on ingredients**

2-Methyl-1-propanol	REACH #: 01-2119484609-23 EC: 201-148-0 CAS: 78-83-1	≤1.5	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335	-	[1]
Butyl Acrylate	Index: 603-108-00-1 REACH #: 01-2119453155-43 EC: 205-480-7 CAS: 141-32-2 Index: 607-062-00-3	≤0.3	STOT SE 3, H336 Flam. Liq. 3, H226 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Chronic 3,	ATE [Inhalation (gases)] = 2730 ppm	[1] [2]
2-Ethyl-2-(hydroxymethyl) -1,3-propanediol	REACH #: 01-2119486799-10 EC: 201-074-9 CAS: 77-99-6	≤0.3	H412 Repr. 2, H361fd	-	[1]
Methyl Isobutyl Ketone	REACH #: 01-2119473980-30 EC: 203-550-1 CAS: 108-10-1 Index: 606-004-00-4	≤0.14	Flam. Liq. 2, H225 Acute Tox. 4, H332 Eye Irrit. 2, H319 Carc. 2, H351 STOT SE 3, H336 EUH066 See Section 16 for the full text of the H statements declared above.	ATE [Inhalation (vapours)] = 11 mg/ I	[1] [2]

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

#### Type

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit

Occupational exposure limits, if available, are listed in Section 8.

#### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

General : In all cases of doubt, or when symptoms persist, seek medical attention. Never give

anything by mouth to an unconscious person. If unconscious, place in recovery

position and seek medical advice.

*Eye contact* : Remove contact lenses, irrigate copiously with clean, fresh water, holding the

eyelids apart for at least 10 minutes and seek immediate medical advice.

Inhalation : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is

irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by

trained personnel.

**Skin contact**: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and

water or use recognized skin cleanser. Do NOT use solvents or thinners.

**Ingestion**: If swallowed, seek medical advice immediately and show this container or label.

Keep person warm and at rest. Do NOT induce vomiting.

**Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

#### 4.2 Most important symptoms and effects, both acute and delayed

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#### **SECTION 4: First aid measures**

There are no data available on the mixture itself. Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]. See Sections 2 and 3 for details.

Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

Ingestion may cause nausea, diarrhea and vomiting.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Contains n-butyl acrylate. May produce an allergic reaction.

#### 4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

**Specific treatments**: No specific treatment.

See toxicological information (Section 11)

#### **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

Suitable extinguishing

media

: Recommended: alcohol-resistant foam, CO<sub>2</sub>, powders, water spray or mist.

Unsuitable extinguishing

media

: Do not use water jet.

#### 5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture

: Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.

Hazardous combustion

products

: Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

#### 5.3 Advice for firefighters

Special protective actions for fire-fighters

: Cool closed containers exposed to fire with water. Do not release runoff from fire to drains or watercourses.

Special protective equipment for fire-fighters

: Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

#### **SECTION 6: Accidental release measures**

#### 6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: Exclude sources of ignition and ventilate the area. Avoid breathing vapor or mist. Refer to protective measures listed in sections 7 and 8.

Keep unnecessary and unprotected personnel from entering.

For emergency responders: If specialized clothing is required to deal with the spillage, take note of any

information in Section 8 on suitable and unsuitable materials. See also the

information in "For non-emergency personnel".

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#### **SECTION 6: Accidental release measures**

# 6.2 Environmental precautions

: Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.

# 6.3 Methods and materials for containment and cleaning up

: Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Preferably clean with a detergent. Avoid using solvents.

# 6.4 Reference to other sections

: See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

#### **SECTION 7: Handling and storage**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

# 7.1 Precautions for safe handling

: Prevent the creation of flammable or explosive concentrations of vapors in air and avoid vapor concentrations higher than the occupational exposure limits. In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard.

Mixture may charge electrostatically: always use earthing leads when transferring from one container to another.

Operators should wear antistatic footwear and clothing and floors should be of the conducting type.

Keep away from heat, sparks and flame. No sparking tools should be used. Avoid contact with skin and eyes. Avoid the inhalation of dust, particulates, spray or mist arising from the application of this mixture. Avoid inhalation of dust from sanding.

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

Put on appropriate personal protective equipment (see Section 8).

Never use pressure to empty. Container is not a pressure vessel.

Always keep in containers made from the same material as the original one. Comply with the health and safety at work laws.

Do not allow to enter drains or watercourses.

#### Information on fire and explosion protection

Vapors are heavier than air and may spread along floors. Vapors may form explosive mixtures with air.

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

# 7.2 Conditions for safe storage, including any incompatibilities

: Store in accordance with local regulations.

#### Notes on joint storage

Keep away from: oxidizing agents, strong alkalis, strong acids.

#### Additional information on storage conditions

Observe label precautions. Store in a dry, cool and well-ventilated area. Keep away from heat and direct sunlight. Keep away from sources of ignition. No smoking. Prevent unauthorized access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Contaminated absorbent material may pose the same hazard as the spilled product. Store in closed original container at temperatures between 5°C and 25°C.

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#### **SECTION 7: Handling and storage**

#### 7.3 Specific end use(s)

Recommendations : Not available.

Industrial sector specific : Not available.

solutions

Good housekeeping standards, regular safe removal of waste materials and regular maintenance of spray booth filters will minimise the risks of spontaneous combustion and other fire hazards.

Before use of this material please refer to the Exposure Scenario(s) if attached for the specific end use, control measures and additional PPE considerations.

#### **SECTION 8: Exposure controls/personal protection**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 8.1 Control parameters

#### Occupational exposure limits

Product/ingredient name	Exposure limit values
n-Butyl Acetate	EU OEL (Europe, 1/2022). Notes: list of indicative occupational exposure limit values  STEL: 150 ppm 15 minutes.  STEL: 723 mg/m³ 15 minutes.  TWA: 241 mg/m³ 8 hours.  TWA: 50 ppm 8 hours.
Xylene, mixed isomers	EU OEL (Europe, 1/2022). [xylene, mixed isomers pure] Absorbed through skin. Notes: list of indicative occupational exposure limit values  TWA: 50 ppm 8 hours.  TWA: 221 mg/m³ 8 hours.  STEL: 100 ppm 15 minutes.  STEL: 442 mg/m³ 15 minutes.
Butyl Acrylate	EU OEL (Europe, 1/2022). Notes: list of indicative occupational exposure limit values  TWA: 2 ppm 8 hours.  TWA: 11 mg/m³ 8 hours.  STEL: 10 ppm 15 minutes.  STEL: 53 mg/m³ 15 minutes.
Methyl Isobutyl Ketone	EU OEL (Europe, 1/2022). Notes: list of indicative occupational exposure limit values  TWA: 20 ppm 8 hours.  TWA: 83 mg/m³ 8 hours.  STEL: 50 ppm 15 minutes.  STEL: 208 mg/m³ 15 minutes.

#### **Biological exposure indices**

No exposure indices known.

# Recommended monitoring procedures

- : Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
- : Regular monitoring of all work areas should be carried out at all times, including areas that may not be equally ventilated.

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# **SECTION 8: Exposure controls/personal protection**

#### **DNELs/DMELs**

Product/ingredient name	Type	Exposure	Value	Population	Effects	
n-Butyl Acetate	DNEL	Short term	600 mg/m <sup>3</sup>	Workers	Local	<u> </u>
	DNEL	Inhalation Long term	300 mg/m³	Workers	Local	
	DNEL	Inhalation Short term	300 mg/m³	General	Local	
	DNEL	Inhalation Long term	35.7 mg/m³	population General	Local	
	DNEL	Inhalation Long term Dermal	11 mg/kg	population Workers	Systemic	
	DNEL	Short term Dermal	11 mg/kg	Workers	Systemic	
	DNEL	Long term Dermal	6 mg/kg	General population	Systemic	
	DNEL	Short term Dermal	6 mg/kg	General population	Systemic	
	DNEL	Long term Oral	2 mg/kg	General population	Systemic	
	DNEL	Short term Oral	2 mg/kg	General population	Systemic	
Xylene, mixed isomers	DNEL	Long term Dermal	180 mg/kg bw/day	Workers	Systemic	
	DNEL	Long term Dermal	108 mg/kg bw/day	General population	Systemic	
	DNEL	Long term Inhalation	77 mg/m³	Workers	Systemic	
	DNEL	Short term Inhalation	289 mg/m <sup>3</sup>	Workers	Systemic	
	DNEL	Short term Inhalation	289 mg/m <sup>3</sup>	Workers	Local	
	DNEL	Long term Inhalation	14.8 mg/m³	General population	Systemic	
	DNEL	Short term Inhalation	174 mg/m³	General population	Local	
	DNEL	Short term Inhalation	174 mg/m³	General population	Systemic	
Ethyl 3-Ethoxypropionate	DNEL	Long term Dermal	102 mg/m <sup>3</sup>	Workers	Systemic	
	DNEL	Long term Inhalation	610 mg/m <sup>3</sup>	Workers	Systemic	
	DNEL	Long term Dermal	102 mg/m <sup>3</sup>	Workers	Local	
	DNEL	Long term Inhalation	610 mg/m <sup>3</sup>	Workers	Local	
	DNEL	Long term Dermal	24.2 mg/m³	population	Systemic	
	DATE		70.0 / 3	[Consumers]		
	DNEL	Long term Inhalation	72.6 mg/m³	General population	Systemic	
	DNEL	Long term Oral	1.2 mg/m³	[Consumers] General population	Systemic	
				[Consumers]		
	DNEL	Long term Dermal	24.2 mg/m³	General population	Local	
	DNEL	Long term	76.2 mg/m³	[Consumers] General	Local	
	DNEL	Inhalation Long term Dermal	0.94 mg/kg	population Workers	Systemic	
-1,3-propanediol	DNEL	Long term Inhalation	3.3 mg/m³	Workers	Systemic	

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#### **SECTION 8: Exposure controls/personal protection**

Methyl Isobutyl Ketone	DNEL	Short term Inhalation	208 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Short term Inhalation	208 mg/m³	Workers	Local
	DNEL	Long term Inhalation	83 mg/m³	Workers	Systemic
	DNEL	Long term Inhalation	83 mg/m³	Workers	Local
	DNEL	Long term Dermal	11.8 mg/ kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	155.2 mg/ m <sup>3</sup>	General population	Systemic
	DNEL	Short term Inhalation	155.2 mg/ m³	[Consumers] General population	Local
	DNEL	Long term Inhalation	14.7 mg/m³	[Consumers] General population	Systemic
	DNEL	Long term Inhalation	14.7 mg/m³	[Consumers] General population	Local
	DNEL	Long term Dermal	4.2 mg/kg bw/day	[Consumers] General population	Systemic
	DNEL	Long term Oral	4.2 mg/kg bw/day	[Consumers] General population [Consumers]	Systemic

#### **PNECs**

Product/ingredient name	Compartment Detail	Value	Method Detail
n-Butyl Acetate	Fresh water	0.18 mg/l	-
,	Marine water	0.018 mg/l	-
	Fresh water sediment	0.981 mg/kg	-
	Marine water sediment	0.0981 mg/kg	-
	Soil	0.0903 mg/kg	-
	Sewage Treatment	35.6 mg/l	-
	Plant		
Ethyl 3-Ethoxypropionate	Fresh water	0.0609 mg/l	-
	Marine water	0.00609 mg/l	-
	Sewage Treatment	50 mg/l	-
	Plant		
	Marine water sediment	0.0419 mg/l	-
	Soil	0.048 mg/l	-
	Fresh water sediment	0.419 mg/kg dwt	-
Methyl Isobutyl Ketone	Fresh water	0.6 mg/l	-
	Marine water	0.06 mg/l	-
	Sewage Treatment	27.5 mg/l	-
	Plant		
	Fresh water sediment	8.27 mg/kg dwt	-
	Marine water sediment	0.83 mg/kg dwt	-
	Soil	1.3 mg/kg dwt	-

#### 8.2 Exposure controls

Appropriate engineering controls

: Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapors below the OEL, suitable respiratory protection must be worn.

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#### **SECTION 8: Exposure controls/personal protection**

: Users are advised to consider national Occupational Exposure Limits or other equivalent values.

#### **Individual protection measures**

#### Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

# Eye/face protection Skin protection

: Use safety eyewear designed to protect against splash of liquids.

: Wear suitable gloves tested to EN374.

Hand protection Gloves

: Gloves for short term exposure/splash protection (less than 10 min.): Nitrile>0.12

Gloves for splash protection need to be changed immediately when in contact with chemicals.

Gloves for repeated or prolonged exposure (breakthrough time > 240 min.) When the hazardous ingredients in Section 3 contain any of the following: Aromatic solvents (Xylene, Toluene) or Aliphatic solvents or Mineral Oil use: Polyvinyl alcohol (PVA) gloves 0.2-0.3 mm

Otherwise use: Butyl gloves >0.3 mm

For long term exposure or spills (breakthrough time >480 min.): Use PE laminated gloves as under gloves

Due to many conditions (e.g. temperature, abrasion) the practical usage of a chemical protective glove in practice may be much shorter than the permeation time determined through testing.

The recommendation for the type or types of glove to use when handling this product is based on information from the following source: Solvent resin manufacturers and European Solvents Industry Group (ESIG)

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.

The breakthrough time must be greater than the end use time of the product. The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.

Gloves should be replaced regularly and if there is any sign of damage to the glove material.

Always ensure that gloves are free from defects and that they are stored and used correctly.

The performance or effectiveness of the glove may be reduced by physical/chemical damage and poor maintenance.

Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.

The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.

#### **Body protection**

- : Personnel should wear antistatic clothing made of natural fibers or of high-temperature-resistant synthetic fibers.
- : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.

#### Other skin protection

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

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#### **SECTION 8: Exposure controls/personal protection**

Respiratory protection

Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Recommended: A2P2 (EN14387). Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Environmental exposure

: Do not allow to enter drains or watercourses.

controls

Before use of this material please refer to the Exposure Scenario(s) if attached for the specific end use, control measures and additional PPE considerations. The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation. The provisions of the national health and safety at work regulations apply to the use of this product at work.

#### **SECTION 9: Physical and chemical properties**

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

#### 9.1 Information on basic physical and chemical properties

#### **Appearance**

Physical state : Liquid. : White. Color Odor : Solvent.

Odor threshold : Not Available (Not Tested).

: Not relevant/applicable due to nature of the product. рН

insoluble in water.

Melting point/freezing point

: Not relevant/applicable due to nature of the product.

Initial boiling point and

boiling range

: 105°C

: Closed cup: 24°C [Pensky-Martens Closed Cup] Flash point

: 1 (butyl acetate = 1) Evaporation rate : Flammable liquid. **Flammability** 

Lower and upper explosion

limit

: LEL: 1% (Xylene, mixed isomers)

UEL: 12.1% (Ethyl 3-Ethoxypropionate)

: 1.3 kPa (10 mm Hg) Vapor pressure

: 2.55 [Air = 1] Relative vapor density

Relative density : 1.61

Solubility(ies)

Media	Result
cold water	Not soluble

water

Partition coefficient: n-octanol/: Not relevant/applicable due to nature of the product.

#### Auto-ignition temperature

Ingredient name	°C	°F	Method
Ethyl 3-Ethoxypropionate	376	708.8	
2-Methyl-1-propanol	400	752	Ĭ
n-Butyl Acetate	415	779	

Decomposition temperature

: Not relevant/applicable due to nature of the product.

Viscosity : Kinematic (40°C): >20.5 mm<sup>2</sup>/s

Explosive properties : Under normal conditions of storage and use, hazardous reactions will not occur. Oxidizing properties : Under normal conditions of storage and use, hazardous reactions will not occur.

**Particle characteristics** 

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#### **SECTION 9: Physical and chemical properties**

Median particle size : Not relevant/applicable due to nature of the product.

9.2 Other information

**Heat of combustion** : 6.778 kJ/g

#### SECTION 10: Stability and reactivity

10.1 Reactivity : No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability : Stable under recommended storage and handling conditions (see Section 7).

10.3 Possibility of hazardous reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid : When exposed to high temperatures may produce hazardous decomposition

products.

10.5 Incompatible materials : Keep away from the following materials to prevent strong exothermic reactions:

oxidizing agents, strong alkalis, strong acids.

10.6 Hazardous decomposition products

 Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

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Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

#### **SECTION 11: Toxicological information**

#### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

There are no data available on the mixture itself. Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]. See Sections 2 and 3 for details.

Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

Ingestion may cause nausea, diarrhea and vomiting.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Contains n-butyl acrylate. May produce an allergic reaction.

#### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
n-Butyl Acetate	LD50 Dermal	Rabbit	>17600 mg/kg	-
	LD50 Oral	Rat	10768 mg/kg	-
Xylene, mixed isomers	LC50 Inhalation Gas.	Rat	6700 ppm	4 hours
	LD50 Oral	Rat	4300 mg/kg	-
Ethyl 3-Ethoxypropionate	LD50 Oral	Rat	3200 mg/kg	-
2-Methyl-1-propanol	LC50 Inhalation Vapor	Rat	19200 mg/m³	4 hours

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# **SECTION 11: Toxicological information**

	LD50 Dermal	Rabbit	3400 mg/kg	-
	LD50 Oral	Rat	2460 mg/kg	-
Butyl Acrylate	LC50 Inhalation Gas.	Rat	2730 ppm	4 hours
	LD50 Oral	Rat	900 mg/kg	-
2-Ethyl-2-(hydroxymethyl) -1,3-propanediol	LD50 Oral	Rat	14000 mg/kg	-
Methyl Isobutyl Ketone	LD50 Oral	Rat	2080 mg/kg	-

#### **Acute toxicity estimates**

Route	ATE value		
	23270.78 mg/kg 141740.22 ppm		

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
n-Butyl Acetate	Eyes - Moderate irritant	Rabbit	-	100 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				mg	
Xylene, mixed isomers	Eyes - Mild irritant	Rabbit	-	87 mg	-
	Eyes - Severe irritant	Rabbit	-	24 hours 5	-
				mg	
	Skin - Mild irritant	Rat	-	8 hours 60 uL	-
	Skin - Moderate irritant	Rabbit	-	100 %	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				mg	
Ethyl 3-Ethoxypropionate	Skin - Mild irritant	Rabbit	-	24 hours 500	-
Det A A sold to	Francis NATI I South and	D. 1.1.26		mg	
Butyl Acrylate	Eyes - Mild irritant	Rabbit	-	50 mg	-
	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
	Oldin Mild invitant	Dabbit		mg	
	Skin - Mild irritant	Rabbit	-	24 hours 10	-
	Skin - Mild irritant	Dobbit		mg	
Mathyl Jackutyl Katana		Rabbit Rabbit	-	500 mg 24 hours 100	-
Methyl Isobutyl Ketone	Eyes - Moderate irritant	Kabbit	-	uL	-
	Eyes - Severe irritant	Rabbit	_	40 mg	
	Skin - Mild irritant	Rabbit	_	24 hours 500	_
	OKIII - IVIIIG IITIGIIL	Ιλαμμίι	-		_
				mg	

Conclusion/Summary

: Not available.

**Sensitization** 

No data available

Conclusion/Summary

: Not available.

**Mutagenicity** 

No data available

Carcinogenicity

No data available

**Reproductive toxicity** 

No data available

#### **Teratogenicity**

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## **SECTION 11: Toxicological information**

No data available

#### Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
n-Butyl Acetate	Category 3	-	Narcotic effects
Xylene, mixed isomers	Category 3	-	Respiratory tract irritation
2-Methyl-1-propanol	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
Butyl Acrylate	Category 3	-	Respiratory tract irritation
Methyl Isobutyl Ketone	Category 3	-	Narcotic effects

#### Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Xylene, mixed isomers	Category 2	-	-

#### **Aspiration hazard**

Product/ingredient name	Result	
Xylene, mixed isomers	ASPIRATION HAZARD - Category 1	

#### 11.2 Information on other hazards

#### 11.2.1 Endocrine disrupting properties

Not available.

#### 11.2.2 Other information

Not available.

### **SECTION 12: Ecological information**

#### 12.1 Toxicity

There are no data available on the mixture itself.

Do not allow to enter drains or watercourses.

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]. See Sections 2 and 3 for details.

Product/ingredient name	Result	Species	Exposure
n-Butyl Acetate	Acute LC50 32 mg/l Marine water	Crustaceans - Artemia salina	48 hours
	Acute LC50 18000 μg/l Fresh water	Fish - Pimephales promelas	96 hours
Xylene, mixed isomers	Acute LC50 8500 μg/l Marine water	Crustaceans - Palaemonetes pugio	48 hours
	Acute LC50 13400 μg/l Fresh water	Fish - Pimephales promelas	96 hours
2-Methyl-1-propanol	Acute LC50 600 mg/l Marine water	Crustaceans - Artemia salina	48 hours
	Acute LC50 1030000 μg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	48 hours
	Acute LC50 1330000 µg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Chronic NOEC 4 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	21 days
2-Ethyl-2-(hydroxymethyl) -1,3-propanediol	Acute EC50 13000000 μg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute LC50 14400000 μg/l Marine water	Fish - Cyprinodon variegatus	96 hours
Methyl Isobutyl Ketone	Acute LC50 505000 µg/l Fresh water Chronic NOEC 78 mg/l Fresh water Chronic NOEC 168 mg/l Fresh water	Fish - Pimephales promelas Daphnia - Daphnia magna Fish - Pimephales promelas -	96 hours 21 days 33 days

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#### **SECTION 12: Ecological information**

	Embryo	

#### 12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
No data available				

#### **Conclusion/Summary**: Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
n-Butyl Acetate	-	-	Readily
Xylene, mixed isomers	-	-	Readily
2-Methyl-1-propanol	-	-	Readily
Methyl Isobutyl Ketone	-	-	Readily

#### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential	
Xylene, mixed isomers Butyl Acrylate	-	8.1 to 25.9 17.27	Low Low	
2-Ethyl-2-(hydroxymethyl) -1,3-propanediol	-	<1	Low	

#### 12.4 Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

*Mobility* : Not available.

#### 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

#### 12.6 Endocrine disrupting properties

Not available.

#### 12.7 Other adverse effects

No known significant effects or critical hazards.

#### **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

#### **Product**

**Methods of disposal** : The generation of waste should be avoided or minimized wherever possible.

Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities

with jurisdiction.

Hazardous waste : Ye

European waste catalogue (EWC)

: waste paint and varnish containing organic solvents or other hazardous substances

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#### **SECTION 13: Disposal considerations**

#### Disposal considerations

Do not allow to enter drains or watercourses.

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

If this product is mixed with other wastes, the original waste product code may no

longer apply and the appropriate code should be assigned. For further information, contact your local waste authority.

#### **Packaging**

#### Methods of disposal

: The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

#### Disposal considerations

: Using information provided in this safety data sheet, advice should be obtained from the relevant waste authority on the classification of empty containers. Empty containers must be scrapped or reconditioned. Dispose of containers contaminated by the product in accordance with local or national legal provisions.

# European waste catalogue (EWC)

: packaging containing residues of or contaminated by hazardous substances 15 01

Special precautions

: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

### **SECTION 14: Transport information**

	ADR/RID	IMDG	IATA
14.1 UN number or ID number	UN1263	UN1263	UN1263
14.2 UN proper shipping name	PAINT	PAINT	PAINT
14.3 Transport Hazard Class(es)/ Label(s)	3	3	3
14.4 Packing group	III	III	III
14.5 Environmental hazards	No.	No.	No.
Additional information	Tunnel code D/E	Emergency schedules F-E, S-E	-

# user

14.6 Special precautions for : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

#### 14.7 Maritime transport in bulk according to IMO instruments

: Not applicable.

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#### **SECTION 14: Transport information**

Multi-modal shipping descriptions are provided for informational purposes and do not consider container sizes. The presence of a shipping description for a particular mode of transport (sea, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport. People loading and unloading dangerous goods must be trained on all of the risks deriving from the substances and on all actions in case of emergency situations.

#### **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

#### EU Regulation (EC) No. 1907/2006 (REACH)

#### Annex XIV - List of substances subject to authorization

#### **Annex XIV**

None of the components are listed.

# <u>Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles</u>

Product/ingredient name		Designation [Usage]
ACROLON 1850 Acrylic Epoxy Finish - Base	≥90	3
2-(2-butoxyethoxy)ethanol	≤0.1	55 [Consumer paint]
toluene	≤0.1	48
formaldehyde	<0.1	72

**Labeling** : Not applicable.

Other EU regulations

VOC content (2010/75/EU) : 24.1\_w/w

388 **g/I** 

**Explosive precursors**: Not applicable.

Seveso Directive

This product may add to the calculation for determining whether a site is within the scope of the Seveso Directive on major accident hazards.

#### **National regulations**

15.2 Chemical Safety : No Chemical Safety Assessment has been carried out.

Assessment

#### **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

Abbreviations and acronyms

: ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.

1272/2008]

DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

vPvB = Very Persistent and Very Bioaccumulative

N/A = Not available

Key literature references and sources for data

: Regulation (EC) No. 1272/2008 [CLP]

ADR = The European Agreement concerning the International Carriage of

Dangerous Goods by Road

IATA = International Air Transport Association IMDG = International Maritime Dangerous Goods

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by

Commission Regulation (EU) 2020/878

Directive 2012/18/EU, and relative amendments & additions

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#### **SECTION 16: Other information**

Directive 2008/98/EC, and relative amendments & additions Directive 2009/161/EU, and relative amendments & additions

**CEPE Guidelines** 

#### Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classi	fication	Justification
Flam. Liq. 3, H226 Eye Irrit. 2, H319		On basis of test data Calculation method
Full text of abbreviated H statements	H226 Flan H304 May H312 Harr H315 Cau H317 May H318 Cau H319 Cau H332 Harr H335 May H336 May H351 Sus  H361fd Sus  unbo H373 May expo	nly flammable liquid and vapor. nmable liquid and vapor. be fatal if swallowed and enters airways. mful in contact with skin. ses skin irritation. cause an allergic skin reaction. ses serious eye damage. ses serious eye irritation. mful if inhaled. cause respiratory irritation. cause drowsiness or dizziness. pected of causing cancer. pected of damaging fertility. Suspected of damaging the orn child. cause damage to organs through prolonged or repeated osure. mful to aquatic life with long lasting effects. eated exposure may cause skin dryness or cracking.
Full text of classifications [CLP/GHS]	: Acute Tox. 4 Aquatic Chronic 3 Asp. Tox. 1 Carc. 2 Eye Dam. 1 Eye Irrit. 2 Flam. Liq. 2 Flam. Liq. 3 Repr. 2 Skin Irrit. 2 Skin Sens. 1 STOT RE 2	ACUTE TOXICITY - Category 4 AQUATIC HAZARD (LONG-TERM) - Category 3 ASPIRATION HAZARD - Category 1 CARCINOGENICITY - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 FLAMMABLE LIQUIDS - Category 2 FLAMMABLE LIQUIDS - Category 3 TOXIC TO REPRODUCTION - Category 2 SKIN CORROSION/IRRITATION - Category 2 SKIN SENSITIZATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 3
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#### **Notice to reader**

In accordance with Regulation (EC) 1907/2006, REACH Regulation, Articles 31, 37, any required hazard-related information on the use of substances received as downstream user will be sent forward. Consequently, the safety data sheets for some products will contain a SUMI - Safe Use of Mixture Information - attached to the safety data sheet.

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#### **SECTION 16: Other information**

SUMI(s) will be added to the SDS for products if both the following conditions are met:

- The product is classified as hazardous for health
- The product contains one or more REACH-registered substances for which extended safety data sheets (exposure scenarios) have been provided

It is recommended that each customer or recipient of this Safety Data Sheet (SDS) study it carefully and consult resources, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. This information is provided in good faith and believed to be accurate as of the effective date herein. However, no warranty, express or implied, is given. The information presented here applies only to the product as shipped. The addition of any material can change the composition, hazards and risks of the product. Products shall not be repackaged, modified, or tinted except as specifically instructed by the manufacturer, including but not limited to the incorporation of products not specified by the manufacturer, or the use or addition of products in proportions not specified by the manufacturer. Regulatory requirements are subject to change and may differ between various locations and jurisdictions. The customer/buyer/user is responsible to ensure that his activities comply with all country, federal, state, provincial or local laws. The conditions for use of the product are not under the control of the manufacturer; the customer/buyer/user is responsible to determine the conditions necessary for the safe use of this product. The customer/buyer/user should not use the product for any purpose other than the purpose shown in the applicable section of this SDS without first referring to the supplier and obtaining written handling instructions. Due to the proliferation of sources for information such as manufacturer-specific SDS, the manufacturer cannot be responsible for SDSs obtained from any other source.

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# SUMI Safe Use of Mixtures Information for end-users

Title : Industrial spray painting, walk-in booth

This document is intended to communicate the conditions of safe use for the product and should always be read in combination with the product's Safety Data Sheet, Technical Data sheet and labels.

# General description of the process covered

Paint application on industrial line with walk-in spray booth

# **Operational conditions**

Place of use : Indoor use

# Risk management measures (RMM)

Preparation of material for application	Contributing activity	Process category	Maximum	Ventilation		
Loading of application Loading of application Loading of application equipment and handling of coated parts before curing Industrial application of coated parts before curing FROCO7  More than 4 hours  Enhanced (mechanical) room ventilation  PROCO7  More than 4 hours  Enhanced (mechanical) room ventilation  Froce drying, stoving and other technologies  PROCO4  More than 4 hours  Enhanced (mechanical) room ventilation  Froce drying, stoving and other technologies  PROCO5  More than 4 hours  Enhanced (mechanical) room ventilation  Refer to relevant technical standards  Froce than 4 hours  Enhanced (mechanical) room ventilation  Refer to relevant technical standards  Froce than 4 hours  Enhanced (mechanical) room ventilation  Frocal mechanical yroom ventilation  Froce than 4 hours  Enhanced (mechanical) room ventilation  Froce than 4 hours  Enhanced (mechanical) room ventilation  From than 4 hours  Enhance		(ies)	duration	Туре		
equipment and handling of coated parts before curing Industrial application of coatings and inks by spraying  Film formation - force drying, stoving and other technologies  Cleaning  PROC05  More than 4 hours  Enhanced (mechanical) room ventilation  Refer to relevant technical standards  For the process and inks by spraying  PROC05  More than 4 hours  Enhanced (mechanical) room ventilation  Refer to relevant technical standards  Refer to relevant technical standards  Refer to relevant technical standards  For the process and the process		PROC05	More than 4 hours		5 - 10	
Film formation - force drying, stoving and other technologies  Cleaning  PROC05  More than 4 hours  Enhanced (mechanical) room ventilation  PROC05  More than 4 hours  Enhanced (mechanical) room ventilation  PROC05  More than 4 hours  Enhanced (mechanical) room ventilation  Film formation - force drying, stoving and other technologies  PROC05  More than 4 hours  Enhanced (mechanical) room ventilation  Film formation of material for application  PROC08b  PROC05  None  PROC05  None  Use eye protection according to EN 166.  Film formation - force drying, stoving and other technologies  Cleaning  PROC05  None  None  Vear suitable gloves tested to EN374.	equipment and handling of	PROC08b	More than 4 hours		5 - 10	
Cleaning PROC05 More than 4 hours Local exhaust ventilation Refer to relevant technical standards  Application equipment cleaning outside booth PROC05 More than 4 hours Enhanced (mechanical) room ventilation  Waste management PROC08b More than 4 hours Enhanced (mechanical) room ventilation  Contributing activity Process category (les)  Respiratory Eye Hands  Contributing activity Process category (les)  None Use eye protection according to EN 166.  Loading of application equipment and handling of coated parts before curing  Industrial application of coatings and inks by spraying  Film formation - force drying, stoving and other technologies  Cleaning PROC05 None Use eye protection according to EN 166.  Vear suitable gloves tested to EN374.		PROC07	More than 4 hours	Local exhaust ventilation		
Application equipment cleaning outside booth  Waste management  PROC08b  More than 4 hours  Enhanced (mechanical) room ventilation  Enhanced (mechanical) room ventilation  Enhanced (mechanical) room ventilation  Film formation - force drying, stoving and other technologies  Cleaning  PROC05  More than 4 hours  Enhanced (mechanical) room ventilation  For the series of the series		PROC04	More than 4 hours		5 - 10	
Contributing activity Process category (ies) Preparation of material for application equipment and handling of coated parts before curing Industrial application of coatings and inks by spraying Film formation - force drying, stoving and other technologies Cleaning PROC05  More than 4 hours  Film formation - force drying, stoving and other technologies Cleaning  PROC05  More than 4 hours  Film formation - force drying, stoving and other technologies Cleaning  PROC05  More than 4 hours  Film formation - force drying, stoving and other technologies Cleaning  PROC05  More than 4 hours  Film formation - force drying, stoving and other technologies  PROC05  None  PROC06  PROC07  Compressed-air breathing apparatus to EN 14594 with an assigned protection factor of at least 20.  None  None  None  None  Wear suitable gloves tested to EN374.	Cleaning	PROC05	More than 4 hours	Local exhaust ventilation		
Contributing activity Process category (ies)  Preparation of material for application Loading of application equipment and handling of coated parts before curing Industrial application of coatings and inks by spraying Film formation - force drying, stoving and other technologies Cleaning  Process category (ies)  Respiratory  Respiratory  Eye  Hands  Use eye protection according to EN 166.  Use eye protection according to EN 166.  Use eye protection according to EN 166.  Wear suitable gloves tested to EN374.  Use eye protection according to EN 166.  Wear suitable gloves tested to EN374.  Wear suitable gloves tested to EN374.  Wear suitable gloves tested to EN374.  Use eye protection according to EN 166.  Use eye protection according to EN 166.  Vone  None  None  None  Use eye protection according to EN 166.  Vear suitable gloves tested to EN374.		PROC05	More than 4 hours		5 - 10	
Preparation of material for application  PROC05  None  Use eye protection according to EN 166.  Use eye protection according to EN 166.  Wear suitable gloves tested to EN374.  Wear suitable gloves tested to EN374.  Versuitable gloves tested to EN374.  Compressed-air breathing application of coatings and inks by spraying  PROC07  Compressed-air breathing apparatus to EN 14594 with an assigned protection factor of at least 20.  Film formation - force drying, stoving and other technologies  Cleaning  PROC05  None  Use eye protection according to EN 166.  Wear suitable gloves tested to EN374.  Wear suitable gloves tested to EN374.  Wear suitable gloves tested to EN374.	Waste management	PROC08b	More than 4 hours		5 - 10	
application  Loading of application equipment and handling of coated parts before curing  Industrial application of coatings and inks by spraying  PROC07  Compressed-air breathing apparatus to EN 14594 with an assigned protection factor of at least 20.  Film formation - force drying, stoving and other technologies  Cleaning  PROC05  None  None  Use eye protection according to EN 166.  Wear suitable gloves tested to EN374.  Wear suitable gloves tested to EN374.  Wear suitable gloves tested to EN374.  Use eye protection according to EN 166.  Use eye protection according to EN 166.  Wear suitable gloves tested to EN374.	Contributing activity		Respiratory	Eye	Hands	
equipment and handling of coated parts before curing  Industrial application of coatings and inks by spraying  PROC07  Compressed-air breathing apparatus to EN 14594 with an assigned protection factor of at least 20.  Film formation - force drying, stoving and other technologies  Cleaning  PROC05  Compressed-air breathing apparatus to EN 14594 with an assigned protection factor of at least 20.  None  None  Wear suitable gloves tested to EN374.  Use eye protection according to EN 166.  Wear suitable gloves tested to EN374.	•	PROC05	None		O O	
coatings and inks by spraying apparatus to EN 14594 with an assigned protection factor of at least 20.  Film formation - force drying, stoving and other technologies  Cleaning PROC05  None Use eye protection according to EN 166.  tested to EN374.  tested to EN374.	equipment and handling of	PROC08b	None			
stoving and other technologies  Cleaning  PROC05  None  Use eye protection according to EN 166.  Wear suitable gloves tested to EN374.		PROC07	apparatus to EN 14594 according to EN 166. with an assigned protection			
according to EN 166. tested to EN374.		PROC04	None	None	None	
Application equipment PROC05 None Use eye protection Wear suitable gloves	Cleaning	PROC05	None			
	Application equipment	PROC05	None	Use eye protection	Wear suitable gloves	

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	ACROLON 1850 Acrylic Epoxy Finisn - Base			industrial spray painting, walk-in booth		
_	cleaning outside booth			according to EN 166.	tested to EN374.	
	Waste management	PROC08b		Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	

See chapter 8 of this Safety Data Sheet for specifications.







#### **Disclaimer**

The information in this Safe Use of Mixture Information sheet is based on the data provided by the substance supplier for the substances in the product for which a chemical safety assessment has been carried out at the time of issue. It does not guarantee safe use of the product and does not replace any occupational risk assessment required by legislation. When developing workplace instructions for employees, SUMI sheets should always be considered in combination with the SDS and the label of the product.

No liability is accepted for any damage, no matter of what kind, which is direct or indirect consequence of acts and/or decisions (partly) based on the contents of this document.

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# SUMI Safe Use of Mixtures Information for end-users

Title : Industrial spray painting, no booth

This document is intended to communicate the conditions of safe use for the product and should always be read in combination with the product's Safety Data Sheet, Technical Data sheet and labels.

# General description of the process covered

Paint application on industrial line with no enclosure (only local exhaust ventilation)

# **Operational conditions**

Place of use : Indoor use

## Risk management measures (RMM)

Contributing activity	Process category	Maximum	Ventilation		
	(ies) duration		Туре	ach (air changes per hour)	
Preparation of material for application	PROC05		Enhanced (mechanical) room ventilation	5 - 10	
Loading of application equipment and handling of coated parts before curing	PROC08b		Enhanced (mechanical) room ventilation	5 - 10	
Industrial application of coatings and inks by spraying	PROC07	More than 4 hours	Local exhaust ventilation	Refer to relevant technical standards	
Film formation - force drying, stoving and other technologies	PROC04		Enhanced (mechanical) room ventilation	5 - 10	
Cleaning	PROC05		Enhanced (mechanical) room ventilation	5 - 10	
Waste management	PROC08b		Enhanced (mechanical) room ventilation	5 - 10	
Contributing activity	Process category (ies)	Respiratory	Eye	Hands	
Preparation of material for application	PROC05	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	
Loading of application equipment and handling of coated parts before curing	PROC08b	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	
Industrial application of coatings and inks by spraying	PROC07	Wear a respirator conforming to EN140 with an assigned protection factor of at least 10.	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	
Film formation - force drying, stoving and other technologies	PROC04	None	None	None	
Cleaning	PROC05	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	
Waste management	PROC08b	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	

See chapter 8 of this Safety Data Sheet for specifications.

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## **Disclaimer**

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# SUMI Safe Use of Mixtures Information for end-users

Title : Industrial spray painting, enclosed

This document is intended to communicate the conditions of safe use for the product and should always be read in combination with the product's Safety Data Sheet, Technical Data sheet and labels.

# General description of the process covered

Paint application on industrial line with fully-enclosed spraying

# **Operational conditions**

Place of use : Indoor use

# Risk management measures (RMM)

Contributing activity	• •	Maximum	Ventilation		
	(ies)	duration	Туре	ach (air changes per hour)	
Preparation of material for application	PROC05	More than 4 hours	Enhanced (mechanical) room ventilation	5 - 10	
Loading of application equipment and handling of coated parts before curing	PROC08b	More than 4 hours	Enhanced (mechanical) room ventilation	5 - 10	
Industrial application of coatings and inks by spraying	PROC07	More than 4 hours	Full containment/extraction	100 or equivalent	
Film formation - force drying, stoving and other technologies	PROC02	More than 4 hours	Enhanced (mechanical) room ventilation	5 - 10	
Cleaning	PROC05	More than 4 hours	Local exhaust ventilation	Refer to relevant technical standards	
Application equipment cleaning outside booth	PROC05	More than 4 hours	Enhanced (mechanical) room ventilation	5 - 10	
Waste management	PROC08b	More than 4 hours	Enhanced (mechanical) room ventilation	5 - 10	
Contributing activity	Process category (ies)	Respiratory	Eye	Hands	
Preparation of material for application	PROC05	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	
Loading of application equipment and handling of coated parts before curing	PROC08b	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	
Industrial application of coatings and inks by spraying	PROC07	None	None	None	
Film formation - force drying, stoving and other technologies	PROC02	None	None	None	
Cleaning	PROC05	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	
Application equipment cleaning outside booth	PROC05	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	
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# SUMI Safe Use of Mixtures Information for end-users

**Title**: Industrial application of coatings and inks by other than spraying-Local exhaust ventilation

This document is intended to communicate the conditions of safe use for the product and should always be read in combination with the product's Safety Data Sheet, Technical Data sheet and labels.

# General description of the process covered

Paint application on industrial line by brush, roller, dipping, spreading, coil, fluidized bed or curtain coating (local exhaust ventilation only)

# **Operational conditions**

Place of use : Indoor use

# Risk management measures (RMM)

Contributing activity	Process category	Maximum	Ventil	ation	
	(ies)	duration	Туре	ach (air changes per hour)	
Preparation of material for application	PROC05	More than 4 hours	Enhanced (mechanical) room ventilation	5 - 10	
Loading of application equipment and handling of coated parts before curing	PROC08b	More than 4 hours	Enhanced (mechanical) room ventilation	5 - 10	
Industrial application of coatings and inks by other than spraying	PROC10, PROC13	More than 4 hours	Local exhaust ventilation	Refer to relevant technical standards	
Film formation - force drying, stoving and other technologies	PROC04	More than 4 hours	Enhanced (mechanical) room ventilation	5 - 10	
Cleaning	PROC05	More than 4 hours	Enhanced (mechanical) room ventilation	5 - 10	
Waste management	PROC08b	More than 4 hours	Enhanced (mechanical) room ventilation	5 - 10	
Contributing activity	Process category (ies)	Respiratory	Eye	Hands	
Preparation of material for application	PROC05	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	
Loading of application equipment and handling of coated parts before curing	PROC08b	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	
Industrial application of coatings and inks by other than spraying	PROC10, PROC13	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	
Film formation - force drying, stoving and other technologies	PROC04	None	None	None	
Cleaning	PROC05	None	Use eye protection according to EN 166.		
Waste management	PROC08b	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	

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# SUMI Safe Use of Mixtures Information for end-users

Title : Industrial application of coatings and inks by other than spraying-Enclosed

This document is intended to communicate the conditions of safe use for the product and should always be read in combination with the product's Safety Data Sheet, Technical Data sheet and labels.

# General description of the process covered

Paint application on industrial line by brush, roller, dipping, spreading, coil, fluidized bed or curtain coating (enclosed application)

# **Operational conditions**

Place of use : Indoor use

# Risk management measures (RMM)

Contributing activity	Process category	Maximum	Ventila	ation
	(ies)	duration	Туре	ach (air changes per hour)
Preparation of material for application	PROC05	More than 4 hours	Enhanced (mechanical) room ventilation	5 - 10
Loading of application equipment and handling of coated parts before curing	PROC08b	More than 4 hours	Enhanced (mechanical) room ventilation	5 - 10
Industrial application of coatings and inks by other than spraying	PROC10, PROC13	More than 4 hours	Local exhaust ventilation	Refer to relevant technical standards
Film formation - force drying, stoving and other technologies	PROC02	More than 4 hours	Enhanced (mechanical) room ventilation	5 - 10
Cleaning	PROC05	More than 4 hours	Local exhaust ventilation	Refer to relevant technical standards
Application equipment cleaning outside booth	PROC05	More than 4 hours	Enhanced (mechanical) room ventilation	5 - 10
Waste management	PROC08b	More than 4 hours	Enhanced (mechanical) room ventilation	5 - 10
Contributing activity	Process category (ies)	Respiratory	Eye	Hands
Preparation of material for application	PROC05	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.
Loading of application equipment and handling of coated parts before curing	PROC08b	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.
Industrial application of coatings and inks by other than spraying	PROC10, PROC13	None	None	None
Film formation - force drying, stoving and other technologies	PROC02	None	None	None
Cleaning	PROC05	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.

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#### spraying-Enclosed Application equipment PROC05 None Use eye protection Wear suitable gloves tested to EN374. according to EN 166. cleaning outside booth Waste management PROC08b None Use eye protection Wear suitable gloves according to EN 166. tested to EN374.

Industrial application of coatings and inks by other than

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ACROLON 1850 Acrylic Epoxy Finish - Base





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# Safe Use of Mixtures Information for end-users

**Title** : Professional painting, outdoor brush/roller

This document is intended to communicate the conditions of safe use for the product and should always be read in combination with the product's Safety Data Sheet, Technical Data sheet and labels.

# General description of the process covered

Outdoor painting by professionals with brush or roller

# **Operational conditions**

Place of use : Outdoor use

## Risk management measures (RMM)

Contributing activity	• •	Maximum	Ventilation		
		duration	Туре	ach (air changes per hour)	
Preparation of material for application	PROC05	More than 4 hours	Outdoors	3 - 5	
Loading of application equipment and handling of coated parts before curing	PROC08a	More than 4 hours	Outdoors	3 - 5	
Professional application of coatings and inks by brush or roller	PROC10	More than 4 hours	Outdoors	3 - 5	
Film formation - force drying, stoving and other technologies	PROC04	More than 4 hours	Outdoors	3 - 5	
Cleaning	PROC05	More than 4 hours	Outdoors	3 - 5	
Waste management	PROC08a	More than 4 hours	Outdoors	3 - 5	
Contributing activity	Process category (ies)	Respiratory	Eye	Hands	
Preparation of material for application	PROC05	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	
Loading of application equipment and handling of coated parts before curing	PROC08a	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	
Professional application of coatings and inks by brush or roller	PROC10	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	
Film formation - force drying, stoving and other technologies	PROC04	None	None	None	
Cleaning	PROC05	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	
Waste management	PROC08a	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	

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# SUMI Safe Use of Mixtures Information for end-users

Title : Professional application of coatings and inks by spraying-Outdoor

This document is intended to communicate the conditions of safe use for the product and should always be read in combination with the product's Safety Data Sheet, Technical Data sheet and labels.

### General description of the process covered

Outdoor spray painting by professionals for general applications (e.g. decorative)

# **Operational conditions**

Place of use : Outdoor use

### Risk management measures (RMM)

Contributing activity	Process category (ies)	Maximum duration	Ventilation		
			Туре	ach (air changes per hour)	
Preparation of material for application	PROC05	15 minutes to 1 hour	Outdoors	3 - 5	
Loading of application equipment and handling of coated parts before curing	PROC08a	15 minutes to 1 hour	Outdoors	3 - 5	
Professional application of coatings and inks by spraying	PROC11	15 minutes to 1 hour	Outdoors	3 - 5	
Film formation - force drying, stoving and other technologies	PROC04	15 minutes to 1 hour	Outdoors	3 - 5	
Cleaning	PROC05	15 minutes to 1 hour	Outdoors	3 - 5	
Waste management	PROC08a	15 minutes to 1 hour	Outdoors	3 - 5	
Contributing activity	Process category (ies)	Respiratory	Eye	Hands	
Preparation of material for application	PROC05	None	Use eye protection according to EN 166.	Wear chemical-resistant gloves (tested to EN374) in combination with 'basic' employee training.	
Loading of application equipment and handling of coated parts before curing	PROC08a	None	Use eye protection according to EN 166.	Wear chemical-resistant gloves (tested to EN374) in combination with 'basic' employee training.	
Professional application of coatings and inks by spraying	PROC11	Wear a respirator conforming to EN140 with an assigned protection factor of at least 10.	Use eye protection according to EN 166.	Wear chemical-resistant gloves (tested to EN374) in combination with 'basic' employee training.	
Film formation - force drying, stoving and other technologies	PROC04	None	None	None	
Cleaning	PROC05	None	Use eye protection according to EN 166.	Wear chemical-resistant gloves (tested to EN374) in combination with 'basic' employee training.	

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				spraying-Outdoor
Waste management	PROC08a	None	Use eye protection according to EN 166.	Wear chemical-resistant gloves (tested to EN374) in combination with 'basic'

Professional application of coatings and inks by

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ACROLON 1850 Acrylic Epoxy Finish - Base





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