

Safety Data Sheet

SDS EU format according to COMMISSION REGULATION (EU) 2020/878
Issue date: 8/4/2014 Revision date: 1/2/2023 Supersedes version of: 6/1/2017 Version: 4.00

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

1.1. Product identifier

Product form : Mixture
Name : Acrylic Clearcoat
Trade name : CRISTAL KLAR 8200

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

Relevant identified uses

Use of the substance/mixture : The product is intended for professional use

1.3. Details of the supplier of the safety data sheet

NOVOL Sp. z o.o. Żabikowska 7/9

62-052 KOMORNIKI, Poland

Poland

T +48618109800, F +48618109809 sekretariat@novol.com, www.novol.com

E-mail address of competent person responsible for the SDS: dokumentacja@novol.com

1.4. Emergency telephone number

Emergency number : 112

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Flammable liquids, Category 2

Skin sensitisation, Category 1

Carcinogenicity, Category 2

Specific target organ toxicity – Single exposure, Category 3,

H336

Narcosis

Hazardous to the aquatic environment – Chronic Hazard, H412

Category 3

Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :







GHS02

GHS07

GHS08

Signal word (CLP) : Danger

Contains : isobutyl methyl ketone

Hazard statements (CLP) : H225 - Highly flammable liquid and vapour.

H317 - May cause an allergic skin reaction. H336 - May cause drowsiness or dizziness. H351 - Suspected of causing cancer.

H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements (CLP) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking.

1/2/2023 (Revision date) GB - en 1/16

Safety Data Sheet

SDS EU format according to COMMISSION REGULATION (EU) 2020/878

P261 - Avoid breathing vapours, spray.

P271 - Use only outdoors or in a well-ventilated area.

P280 - Wear protective gloves, protective clothing, eye protection, face protection.

P312 - Call doctor if you feel unwell.

: EUH066 - Repeated exposure may cause skin dryness or cracking.

2.3. Other hazards

EUH-statements

Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
n-butyl acetate substance with national workplace exposure limit(s) (GB); substance with a Community workplace exposure limit	CAS-No.: 123-86-4 EC-No.: 204-658-1 EC Index-No.: 607-025-00-1 REACH-no: 01-2119485493- 29	20 – 25	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	
heptan-2-one; methyl amyl ketone substance with national workplace exposure limit(s) (GB); substance with a Community workplace exposure limit	CAS-No.: 110-43-0 EC-No.: 203-767-1 EC Index-No.: 606-024-00-3 REACH-no: 01-2119902391-	10 – 15	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Acute Tox. 4 (Inhalation), H332 (ATE=1.5 mg/l/4h)	
Hydrocarbons, C9, aromatics	CAS-No.: 128601-23-0 EC-No.: 918-668-5 REACH-no: 01-2119455851- 35	< 10	Flam. Liq. 3, H226 STOT SE 3, H336 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066	
isobutyl methyl ketone substance with national workplace exposure limit(s) (GB); substance with a Community workplace exposure limit	CAS-No.: 108-10-1 EC-No.: 203-550-1 EC Index-No.: 606-004-00-4 REACH-no: 01-2119473980- 30	5 – 7	Flam. Liq. 2, H225 Acute Tox. 4 (Inhalation), H332 (ATE=1.5 mg/l/4h) Eye Irrit. 2, H319 Carc. 2, H351 STOT SE 3, H336 EUH066	
reaction mass of α -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl- ω -hydroxypoly(oxyethylene) and α -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl- ω -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene)	CAS-No.: 104810-48- 2+104810-47-1+ 25322-68-3 EC-No.: 400-830-7 EC Index-No.: 607-176-00-3 REACH-no: 01-2119472279- 28	< 1.6	Skin Sens. 1, H317 Aquatic Chronic 2, H411	
Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	CAS-No.: 41556-26-7 EC-No.: 255-437-1	< 0.9	Skin Sens. 1, H317 Aquatic Chronic 1, H410 (M=10)	

Full text of H- and EUH-statements: see section 16

Safety Data Sheet

SDS EU format according to COMMISSION REGULATION (EU) 2020/878

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : General information. Refer to section 11.

First-aid measures after inhalation : If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable

for breathing

First-aid measures after skin contact : After contact with skin, take off immediately all contaminated clothing, and wash

immediately with plenty of water and soap. Rinse skin with water/shower. If skin irritation or rash occurs: Get medical advice/attention. If skin irritation continues, consult a doctor.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing. Call a physician immediately. In case of contact with eyes, rinse

immediately with plenty of water and seek medical advice.

First-aid measures after ingestion : If swallowed: rinse mouth. Do NOT induce vomiting. Call a physician immediately.

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

Symptoms/effects after inhalation : Vapours may cause drowsiness and dizziness.

Symptoms/effects after skin contact : Prolonged or repeated contact may cause skin to become dry.

Symptoms/effects after eye contact : May cause eye irritation.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Dry chemical, CO2, alcohol-resistant foam or waterspray.

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Carbon monoxide. Other toxic gases.

5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained

breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Protective equipment : Remove ignition sources. Ensure that there is a suitable ventilation system. Avoid any direct

or indirect contact with ingredients released. Avoid contact with skin and eyes. Use personal

protective equipment as required. See Section 8.

For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. See Section 8.

6.2. Environmental precautions

Avoid release to the environment. Do not allow to enter into surface water or drains. Do not allow product to reach ground water, water bodies or sewage system, even in small quantities.

6.3. Methods and material for containment and cleaning up

For containment : Cover spill with non combustible material, e.g.: sand, earth, vermiculite. Mechanically

recover the product.

1/2/2023 (Revision date) GB - en 3/16

Safety Data Sheet

SDS EU format according to COMMISSION REGULATION (EU) 2020/878

6.4. Reference to other sections

Disposal considerations. See Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks,

open flames and other ignition sources. No smoking. Use only outdoors or in a well-

ventilated area. Wear personal protective equipment.

Hygiene measures : Wash contaminated clothing before reuse. Contaminated work clothing should not be

allowed out of the workplace. Do not eat, drink or smoke when using this product. Always

wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Ground/bond container and receiving equipment.

Storage conditions : Store in a well-ventilated place. Keep cool. Keep container tightly closed.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

National occupational exposure and biological limit values

n-butyl acetate (123-86-4)		
EU - Indicative Occupational Exposure Limit (IOEL)		
Local name	n-Butyl acetate	
IOEL TWA	241 mg/m³	
	50 ppm	
IOEL STEL	723 mg/m³	
	150 ppm	
Regulatory reference	COMMISSION DIRECTIVE (EU) 2019/1831	
United Kingdom - Occupational Exposure Limits		
Local name	Butyl acetate	
WEL TWA (OEL TWA)	724 mg/m³	
	150 ppm	
WEL STEL (OEL STEL)	966 mg/m³	
	200 ppm	
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE	
heptan-2-one; methyl amyl ketone (110-43-0)		
EU - Indicative Occupational Exposure Limit (IOEL)		
Local name	Heptan-2-one	
IOEL TWA	238 mg/m³	
	50 ppm	
IOEL STEL	475 mg/m³	

Safety Data Sheet

SDS EU format according to COMMISSION REGULATION (EU) 2020/878

heptan-2-one; methyl amyl ketone (110-43-0)	
- To the fine the state of the state of the state of	100 ppm
Remark	Skin
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC
United Kingdom - Occupational Exposure Limits	Turning a
Local name	Heptan-2-one
WEL TWA (OEL TWA)	237 mg/m ³
	50 ppm
WEL STEL (OEL STEL)	475 mg/m³
	100 ppm
Remark	Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
isobutyl methyl ketone (108-10-1)	
EU - Indicative Occupational Exposure Limit (IOEL	_)
Local name	4-Methylpentan-2-one
IOEL TWA	83 mg/m³
	20 ppm
IOEL STEL	208 mg/m³
	50 ppm
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC
United Kingdom - Occupational Exposure Limits	
Local name	4-Methylpentan-2-one
WEL TWA (OEL TWA)	208 mg/m³
	50 ppm
WEL STEL (OEL STEL)	416 mg/m³
	100 ppm
Remark	Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
United Kingdom - Biological limit values	
Local name	4-methylpentan-2-one
BMGV	20 μmol/l Parameter: 4-methylpentan-2-one - Medium: urine - Sampling time: Post shift
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

Recommended monitoring procedures

Monitoring methods	
Monitoring methods	EN 482. Workplace exposure - General requirements for the performance of procedures for the measurement of chemical agents.

Safety Data Sheet

SDS EU format according to COMMISSION REGULATION (EU) 2020/878

DNEL and PNEC

n-butyl acetate (123-86-4)		
PNEC (Water)		
PNEC aqua (freshwater)	0.18 mg/l	
PNEC aqua (meshwater)	0.018 mg/l	
PNEC aqua (marine water) PNEC aqua (intermittent, freshwater)	0.36 mg/l	
	0.56 High	
PNEC (Sediment)	0.004 marker data	
PNEC sediment (freshwater)	0.981 mg/kg dwt	
PNEC sediment (marine water)	0.0981 mg/kg dwt	
PNEC (Soil)	T	
PNEC soil	0.0903 mg/kg dwt	
PNEC (STP)		
PNEC sewage treatment plant	35.6 mg/l	
heptan-2-one; methyl amyl ketone (110-43-0)		
DNEL/DMEL (Workers)		
Acute - systemic effects, inhalation	1516 mg/m³	
Long-term - systemic effects, dermal	54.27 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	394.25 mg/m³	
DNEL/DMEL (General population)		
Long-term - systemic effects,oral	23.32 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	84.31 mg/m³	
Long-term - systemic effects, dermal	23.32 mg/kg bodyweight/day	
PNEC (Water)		
PNEC aqua (freshwater)	0.0982 mg/l	
PNEC aqua (marine water)	0.00982 mg/l	
PNEC aqua (intermittent, freshwater)	0.982 mg/l	
PNEC (Sediment)		
PNEC sediment (freshwater)	1.89 mg/kg dwt	
PNEC sediment (marine water)	0.189 mg/kg dwt	
PNEC (Soil)		
PNEC soil	0.321 mg/kg dwt	
PNEC (STP)		
PNEC sewage treatment plant	12.5 mg/l	
Hydrocarbons, C9, aromatics (128601-23-0)		
DNEL/DMEL (Workers)		
Long-term - systemic effects, dermal	25 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	150 mg/m³	
DNEL/DMEL (General population)	,	
Long-term - systemic effects,oral	11 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	32 mg/m³	

Safety Data Sheet

SDS EU format according to COMMISSION REGULATION (EU) 2020/878

Hydrocarbons, C9, aromatics (128601-23-0)		
Long-term - systemic effects, dermal	11 mg/kg bodyweight/day	
isobutyl methyl ketone (108-10-1)		
DNEL/DMEL (Workers)		
Acute - systemic effects, inhalation	208 mg/m³	
Acute - local effects, inhalation	208 mg/m³	
Long-term - systemic effects, dermal	11.8 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	83 mg/m³	
Long-term - local effects, inhalation	83 mg/m³	
DNEL/DMEL (General population)		
Acute - systemic effects, inhalation	155.2 mg/m³	
Acute - local effects, inhalation	155.2 mg/m³	
Long-term - systemic effects,oral	4.2 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	14.7 mg/m³	
Long-term - systemic effects, dermal	4.2 mg/kg bodyweight/day	
Long-term - local effects, inhalation	14.7 mg/m³	
PNEC (Water)		
PNEC aqua (freshwater)	0.6 mg/l	
PNEC aqua (marine water)	0.06 mg/l	
PNEC aqua (intermittent, freshwater)	1.5 mg/l	
PNEC (Sediment)		
PNEC sediment (freshwater)	8.27 mg/kg dwt	
PNEC sediment (marine water)	0.83 mg/kg dwt	
PNEC (Soil)		
PNEC soil	1.3 mg/kg dwt	
PNEC (STP)		
PNEC sewage treatment plant	27.5 mg/l	

8.2. Exposure controls

Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Personal protection equipment

Personal protective equipment symbol(s):







Eye and face protection

Eye protection:

Safety glasses

Safety Data Sheet

SDS EU format according to COMMISSION REGULATION (EU) 2020/878

Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Protective gloves

Hand protection					
Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves	Viton® II	6 (> 480 minutes)	0,7 mm		EN 374-3
Disposable gloves	Nitrile rubber (NBR)	2 (> 30 minutes)	0,4 mm		EN 374-3

Respiratory protection

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

Respiratory protection			
Device	Filter type	Condition	Standard
Gas mask with filter type	Filter A1/B1		EN 14387

Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
Colour : Colourless.
Odour : characteristic.

Odour threshold : < 100 ppm 4-methylpentan-2-one; isobutyl methyl ketone

Melting point : Not applicable
Freezing point : Not available
Boiling point : 114 °C
Flammability : Not applicable
Explosive properties : No data available.

Lower explosion limit : 1.2 vol % 4-methylpentan-2-one; isobutyl methyl ketone Upper explosion limit : 8 vol % 4-methylpentan-2-one; isobutyl methyl ketone

Flash point : 14 °C
Auto-ignition temperature : ≈ 435 °C
Decomposition temperature : Not available
pH : Not applicable
Viscosity, kinematic : Not available
Solubility : Slightly soluble.
Partition coefficient n-octanol/water (Log Kow) : Not available

Vapour pressure : 21 hPa 4-methylpentan-2-one; isobutyl methyl ketone

Vapour pressure at 50°C : Not available
Density : 1 g/cm³
Relative density : Not available
Relative vapour density at 20°C : Not available
Particle characteristics : Not applicable

9.2. Other information

No additional information available

Safety Data Sheet

SDS EU format according to COMMISSION REGULATION (EU) 2020/878

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions of use.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Keep away from sources of ignition. Prevent build-up of electrostatic charges (e.g, by grounding). Protect from sunlight. Avoid high temperatures.

10.5. Incompatible materials

No contact with: strong acids, strong bases and strong oxidants.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Thermal decomposition may produce: Carbon monoxide. Other toxic gases.

SECTION 11: Toxicological information

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

Acute toxicity (oral) : Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal) : Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation) : Not classified (Based on available data, the classification criteria are not met)

riodic toxicity (illinalation)	. Not dissilied (Based on available data, the dissiliedition official are not met)	
n-butyl acetate (123-86-4)		
LD50 oral rat	12.2 ml/kg Source: ECHA	
LC50 Inhalation - Rat (Vapours)	> 4.9 mg/l Source: ECHA	
heptan-2-one; methyl amyl ketone (11	0-43-0)	
LD50 oral rat	≈ 1600 mg/kg bodyweight Animal: rat, Remarks on results: other:	
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal))	
LC50 Inhalation - Rat	> 16.7 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity), Guideline: EU Method B.2 (Acute Toxicity (Inhalation))	
LC50 Inhalation - Rat (Vapours)	> 16.7 mg/l Source: ECHA	
Hydrocarbons, C9, aromatics (128601	-23-0)	
LD50 dermal rabbit	> 3160 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)	
LC50 Inhalation - Rat	> 6193 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity), Remarks on results: other:	
Bis(1,2,2,6,6-pentamethyl-4-piperidyl)	sebacate (41556-26-7)	
LD50 oral rat	2369 – 3920 mg/kg Source: International Uniform ChemicaL Information Database	
isobutyl methyl ketone (108-10-1)		
LD50 oral rat	2080 mg/kg Source: ECHA	
LD50 dermal rabbit	≥ 2000 mg/kg Source: ECHA	

1/2/2023 (Revision date) GB - en 9/16

Safety Data Sheet

SDS EU format according to COMMISSION REGULATION (EU) 2020/878

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isobutyl methyl ketone (108-10-1)			
LC50 Inhalation - Rat (Vapours)	11.6 mg/l Source: ECHA		
Skin corrosion/irritation	: Not classified (Based on available data, the classification criteria are not met) pH: Not applicable		
n-butyl acetate (123-86-4)			
рН	6.2 Temp.: 20 °C Concentration: 5,3 g/L		
Serious eye damage/irritation	: Not classified (Based on available data, the classification criteria are not met) pH: Not applicable		
n-butyl acetate (123-86-4)			
рН	6.2 Temp.: 20 °C Concentration: 5,3 g/L		
Respiratory or skin sensitisation Germ cell mutagenicity Carcinogenicity	May cause an allergic skin reaction. Not classified (Based on available data, the classification criteria are not met) Suspected of causing cancer.		
isobutyl methyl ketone (108-10-1)			
IARC group	2B - Possibly carcinogenic to humans		
Reproductive toxicity STOT-single exposure	Not classified (Based on available data, the classification criteria are not met) May cause drowsiness or dizziness.		
n-butyl acetate (123-86-4)			
STOT-single exposure	May cause drowsiness or dizziness.		
Hydrocarbons, C9, aromatics (128601-23	i-0)		
STOT-single exposure	May cause drowsiness or dizziness. May cause respiratory irritation.		
isobutyl methyl ketone (108-10-1)			
STOT-single exposure	May cause drowsiness or dizziness.		
STOT-repeated exposure	: Not classified (Based on available data, the classification criteria are not met)		
n-butyl acetate (123-86-4)			
LOAEL (oral, rat, 90 days)	500 mg/kg bodyweight Animal: rat, Guideline: EPA OTS 798.2650 (90-Day Oral Toxicity in Rodents)		
NOAEL (oral, rat, 90 days)	125 mg/kg bodyweight Animal: rat, Guideline: EPA OTS 798.2650 (90-Day Oral Toxicity in Rodents)		
Hydrocarbons, C9, aromatics (128601-23	i-O)		
NOAEL (oral, rat, 90 days)	600 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)		
isobutyl methyl ketone (108-10-1)			
LOAEL (oral, rat, 90 days)	1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)		
NOAEL (oral, rat, 90 days)	250 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)		
NOAEC (inhalation, rat, vapour, 90 days)	4106 mg/l air Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study)		
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)		
n-butyl acetate (123-86-4)			
Viscosity, kinematic	0.83 mm²/s Temp.: '20°C' Parameter: 'kinematic viscosity (in mm²/s)'		
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1/2/2023 (Revision date) GB - en 10/16

Safety Data Sheet

SDS EU format according to COMMISSION REGULATION (EU) 2020/878

heptan-2-one; methyl amyl ketone (110-43-0)	
Viscosity, kinematic	0.979 mm²/s Temp.: '20°C' Parameter: 'kinematic viscosity (in mm²/s)'

11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term

: Not classified (Based on available data, the classification criteria are not met)

(acute)

Hazardous to the aquatic environment, long-term

: Harmful to aquatic life with long lasting effects.

(chronic)

Safety Data Sheet

SDS EU format according to COMMISSION REGULATION (EU) 2020/878

12.2. Persistence and degradability

CRISTAL KLAR 8200			
Persistence and degradability	Not rapidly degradable		
n-butyl acetate (123-86-4)	n-butyl acetate (123-86-4)		
Persistence and degradability	Not rapidly degradable		
heptan-2-one; methyl amyl ketone (110-43-0)			
Persistence and degradability	Not rapidly degradable		
Hydrocarbons, C9, aromatics (128601-23-0)			
Persistence and degradability	Not rapidly degradable		
reaction mass of α-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-ω-hydroxypoly(oxyethylene) and α-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-ω-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene) (104810-48-2+104810-47-1+ 25322-68-3)			
Persistence and degradability	Not rapidly degradable		
Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate (41556-26-7)			
Persistence and degradability	Not rapidly degradable		
isobutyl methyl ketone (108-10-1)			
Persistence and degradability	Not rapidly degradable		

12.3. Bioaccumulative potential

n-butyl acetate (123-86-4)		
Partition coefficient n-octanol/water (Log Pow)	1.78 Source: HSDB	
heptan-2-one; methyl amyl ketone (110-43-0)		
Partition coefficient n-octanol/water (Log Pow)	2.26 Source: ECHA	
Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate (41556-26-7)		
Partition coefficient n-octanol/water (Log Pow) 0.37 Source: International Uniform ChemicaL Information Database		
isobutyl methyl ketone (108-10-1)		
Partition coefficient n-octanol/water (Log Pow)	1.31 Source: ChemIDPlus	

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

No additional information available

Safety Data Sheet

SDS EU format according to COMMISSION REGULATION (EU) 2020/878

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional waste regulation : Disposal must be done according to official regulations.

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

Sewage disposal recommendations : Do not discharge into drains.

Product/Packaging disposal recommendations : This material and its container must be disposed of as hazardous waste. Do not dispose of

with domestic waste. After cleaning, recycle or dispose of at an authorised site.

Additional information : Flammable vapours may accumulate in the container.

European List of Waste (LoW, EC 2000/532) : 08 01 11* - waste paint and varnish containing organic solvents or other dangerous

substances

15 01 10* - packaging containing residues of or contaminated by dangerous substances

European List of Waste (LoW, EC 2000/532)

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA

IMDG	IATA		
14.1. UN number or ID number			
UN 1866	UN 1866		
RESIN SOLUTION	Resin solution		
UN 1866 RESIN SOLUTION, 3, III (14°C c.c.)	UN 1866 Resin solution, 3, III		
14.3. Transport hazard class(es)			
3	3		
3	3		
III	III		
Dangerous for the environment: No Marine pollutant: No EmS-No. (Fire): F-E EmS-No. (Spillage): S-E	Dangerous for the environment: No		
	UN 1866 RESIN SOLUTION UN 1866 RESIN SOLUTION, 3, III (14°C c.c.) 3 III Dangerous for the environment: No Marine pollutant: No EmS-No. (Fire): F-E		

14.6. Special precautions for user

Overland transport

Classification code (ADR) : F1
Limited quantities (ADR) : 5l
Special packing provisions (ADR) : PP1
Mixed packing provisions (ADR) : MP19
Transport category (ADR) : 3
Special provisions for carriage - Packages (ADR) : V12

Orange plates

30 1866

Safety Data Sheet

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Tunnel restriction code (ADR) : D/E EAC code : •3Y

Transport by sea

Special provisions (IMDG) : 223, 955
Limited quantities (IMDG) : 5 L
Special packing provisions (IMDG) : PP1
Stowage category (IMDG) : A

Air transport

No data available

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

EU-Regulations

REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

Council Regulation (EC) for the control of dual-use items

Contains substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes:

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Abbreviations and acronyms:	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road

Safety Data Sheet

SDS EU format according to COMMISSION REGULATION (EU) 2020/878

Abbreviations and acronyms:			
ATE	Acute Toxicity Estimate		
BCF	Bioconcentration factor		
BLV	Biological limit value		
BOD	Biochemical oxygen demand (BOD)		
COD	Chemical oxygen demand (COD)		
DMEL	Derived Minimal Effect level		
DNEL	Derived-No Effect Level		
EC-No.	European Community number		
EC50	Median effective concentration		
EN	European Standard		
IARC	International Agency for Research on Cancer		
IATA	International Air Transport Association		
IMDG	International Maritime Dangerous Goods		
LC50	Median lethal concentration		
LD50	Median lethal dose		
LOAEL	Lowest Observed Adverse Effect Level		
NOAEC	No-Observed Adverse Effect Concentration		
NOAEL	No-Observed Adverse Effect Level		
NOEC	No-Observed Effect Concentration		
OECD	Organisation for Economic Co-operation and Development		
OEL	Occupational Exposure Limit		
PBT	Persistent Bioaccumulative Toxic		
PNEC	Predicted No-Effect Concentration		
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail		
SDS	Safety Data Sheet		
STP	Sewage treatment plant		
ThOD	Theoretical oxygen demand (ThOD)		
TLM	Median Tolerance Limit		
VOC	Volatile Organic Compounds		
CAS-No.	Chemical Abstract Service number		
N.O.S.	Not Otherwise Specified		
vPvB	Very Persistent and Very Bioaccumulative		
ED	Endocrine disruptor		

Data sources : ECHA (European Chemicals Agency).

Training advice : Handle in accordance with good industrial hygiene and safety procedures.

Full text of H- and EUH-statements:		
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4	

Safety Data Sheet

SDS EU format according to COMMISSION REGULATION (EU) 2020/878

Full text of H- and EUH-statements:			
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1		
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2		
Asp. Tox. 1	Aspiration hazard, Category 1		
Carc. 2	Carcinogenicity, Category 2		
EUH066	Repeated exposure may cause skin dryness or cracking.		
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2		
Flam. Liq. 2	Flammable liquids, Category 2		
Flam. Liq. 3	Flammable liquids, Category 3		
H225	Highly flammable liquid and vapour.		
H226	Flammable liquid and vapour.		
H302	Harmful if swallowed.		
H304	May be fatal if swallowed and enters airways.		
H317	May cause an allergic skin reaction.		
H319	Causes serious eye irritation.		
H332	Harmful if inhaled.		
H335	May cause respiratory irritation.		
H336	May cause drowsiness or dizziness.		
H351	Suspected of causing cancer.		
H410	Very toxic to aquatic life with long lasting effects.		
H411	Toxic to aquatic life with long lasting effects.		
H412	Harmful to aquatic life with long lasting effects.		
Skin Sens. 1	Skin sensitisation, Category 1		
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Narcosis		

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:		
Flam. Liq. 2	H225	Expert judgement
Skin Sens. 1	H317	Expert judgement
Carc. 2	H351	Calculation method
STOT SE 3	H336	Expert judgement
Aquatic Chronic 3	H412	Expert judgement

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.