

Safety Data Sheet S2088-D-US-SDS according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

DRIVING SURFACE PERFECTION

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Version: 4.0

SECTION 1: Identification	
1.1. Identification	
Product form	: Mixture
Trade name	: SYSTEM 20 UNIVERSAL CLEARCOAT (4:1)
UP Number	UP2881, UP2882
1.2. Recommended use and restrictions	on use
Use of the substance/mixture	: Coatings and paints, thinners, paint removers
Recommended use	: Topcoat
Restrictions on use	: Consumer uses: Private households (= general public = consumers)
1.3. Supplier	
U-POL US Inc 108 Commerce Way Easton, PA 18040 - United States T 1-800-340-7824 - F 1-800-787-5150 technicalsupport@u-pol.com - www.u-pol.com	
1.4. Emergency telephone number	

Emergency number

: CHEMTREC - 1-800-424-9300

SECTION 2: Hazard(s) identification

2.1. **Classification of the substance or mixture**

GHS US classification

Flammable liquids Category 2 Skin corrosion/irritation Category 2	Highly flammable liquid and vapor Causes skin irritation
Serious eye damage/eye irritation Category 2	Causes serious eye irritation
Skin sensitization, Category 1 Carcinogenicity Category 2	May cause an allergic skin reaction Suspected of causing cancer
Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation	May cause respiratory irritation
Specific target organ toxicity — Single exposure, Category 3, Narcosis	May cause drowsiness or dizziness
Specific target organ toxicity (repeated exposure) Category 2	May cause damage to organs through prolonged or repeated exposure

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS US)



Signal word (GHS US)	: Danger
Hazard statements (GHS US)	 Highly flammable liquid and vapor Causes skin irritation May cause an allergic skin reaction Causes serious eye irritation May cause respiratory irritation May cause drowsiness or dizziness Suspected of causing cancer May cause damage to organs through prolonged or repeated exposure
Precautionary statements (GHS US)	 Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe vapors, spray, fume.

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Wash hands thoroughly after handling. Use only outdoors or in a well-ventilated area. Contaminated work clothing must not be allowed out of the workplace. Wear face protection, protective clothing, protective gloves.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
If inhaled: Remove person to fresh air and keep comfortable for breathing.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present
and easy to do. Continue rinsing.
If exposed or concerned: Get medical advice/attention.
If skin irritation or rash occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
Take off contaminated clothing and wash it before reuse.
In case of fire: Use dry sand, extinguishing powder, foam to extinguish.
Store in a well-ventilated place. Keep cool.
Store locked up.
Dispose of contents/container to hazardous or special waste collection point, in accordance
with local, regional, national and/or international regulation.

2.3. Other hazards which do not result in classification

2.4. Unknown acute toxicity (GHS US)

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS US classification
reaction mass of ethylbenzene, m-xylene and p-xylene		5 – 43	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Carc. 2, H351 STOT SE 3, H335 STOT RE 2, H373 Asp. Tox. 1, H304
Xylene	(CAS-No.) 1330-20-7	5 – 23	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 Asp. Tox. 1, H304
methyl acetate	(CAS-No.) 79-20-9	5 – 23	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
acetone	(CAS-No.) 67-64-1	5 – 23	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
Ethylbenzene	(CAS-No.) 100-41-4	5 – 23	Flam. Liq. 2, H225 Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Inhalation:vapour), H332 Carc. 2, H351 STOT RE 2, H373 Asp. Tox. 1, H304
n-butyl acetate	(CAS-No.) 123-86-4	< 23	Flam. Liq. 3, H226 STOT SE 3, H336
solvent naphtha (petroleum), light aromatic	(CAS-No.) 64742-95-6	< 5	Flam. Liq. 3, H226 STOT SE 3, H336 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
2-butoxyethyl acetate, butylglycol acetate	(CAS-No.) 112-07-2	< 5	Flam. Liq. 4, H227 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Name	Product identifier	%	GHS US classification
4-methylpentan-2-one, isobutyl methyl ketone	(CAS-No.) 108-10-1	< 5	Flam. Liq. 2, H225 Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Inhalation:vapour), H332 Eye Irrit. 2, H319 Carc. 2, H351 STOT SE 3, H335
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)		< 5	Skin Sens. 1A, H317 Aquatic Chronic 2, H411
reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	(CAS-No.) 1065336-91-5	< 5	Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measu	res
4.1. Description of first aid me	asures
First-aid measures general	: IF exposed or concerned: Get medical advice/attention.
First-aid measures after inhalation	 Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor/physician if you feel unwell.
First-aid measures after skin contact	: Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Call a poison center/doctor/physician if you feel unwell.
4.2. Most important symptoms	s and effects (acute and delayed)
Symptoms/effects	: May cause drowsiness or dizziness.
Symptoms/effects after inhalation	: May cause respiratory irritation.
Symptoms/effects after skin contact	: Irritation. May cause an allergic skin reaction.
Symptoms/effects after eye contact	: Eye irritation.
4.3. Immediate medical attention	on and special treatment, if necessary
Treat symptomatically.	
SECTION 5: Fire-fighting me	asures
5.1. Suitable (and unsuitable) e	extinguishing media
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
5.2. Specific hazards arising fr	rom the chemical
Fire hazard	 I. Park has the second state of a s
	: Highly flammable liquid and vapor.
Reactivity	 Highly flammable liquid and vapor. Highly flammable liquid and vapor.
Special protective equipm Protection during firefighting	: Highly flammable liquid and vapor.
5.3. Special protective equipm Protection during firefighting	 Highly flammable liquid and vapor. Highly flammable liquid and vapor. In the protection of the fighters Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
5.3. Special protective equipm Protection during firefighting SECTION 6: Accidental relea	 Highly flammable liquid and vapor. Highly flammable liquid and vapor. In the protection of the fighters Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
5.3. Special protective equipm Protection during firefighting SECTION 6: Accidental relea	 Highly flammable liquid and vapor. Highly flammable liquid and vapor. Intent and precautions for fire-fighters Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. Ase measures Intent and emergency procedures
5.3. Special protective equipm Protection during firefighting SECTION 6: Accidental relea 6.1. Personal precautions, pro	 Highly flammable liquid and vapor. Highly flammable liquid and vapor. Intent and precautions for fire-fighters Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. Ase measures Intent and emergency procedures

6.1.2. For emergency responders

0.1.2. I of entergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

5.3. Methods and material for containment and cleaning up				
	 Collect spillage. Contain released product, pump into suitable containers. Take up liquid spill into absorbent material. This material and its container must be disposed of in a safe way, and as per local legislation. Notify authorities if product enters sewers or public waters. 			
Other information	Dispose of materials or solid residues at an authorized site.			
6.4. Reference to other sections				
For further information refer to section 13.				
SECTION 7: Handling and storage				
7.1. Precautions for safe handling				
Precautions for safe handling	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapors may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe vapors, spray, fume. Use only outdoors or in a well-ventilated area. Avoid contact with skin and eyes.			
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	: Keep only in the original container in a cool, well ventilated place away from : Ignition sources, Heat sources. Keep in fireproof place. Keep container tightly closed.			
Storage temperature	: < 25 °C			
Storage area	Store in well ventilated area.			
Special rules on packaging	Keep only in original container.			

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

n-butyl acetate (123-86-4)				
ACGIH	Local name	n-Butyl acetate		
ACGIH	ACGIH OEL TWA [ppm]	50 ppm		
ACGIH	ACGIH OEL STEL [ppm]	150 ppm		
ACGIH	Remark (ACGIH)	TLV® Basis: Eye & URT irr		
ACGIH	Regulatory reference	ACGIH 2021		
OSHA	OSHA PEL (TWA) [1]	710 mg/m ³		
OSHA	OSHA PEL (TWA) [2]	150 ppm		
OSHA	Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1		
4-methylpentan-2-o	4-methylpentan-2-one, isobutyl methyl ketone (108-10-1)			
ACGIH	Local name	Methyl isobutyl ketone		
ACGIH	ACGIH OEL TWA [ppm]	20 ppm		
ACGIH	ACGIH OEL STEL [ppm]	75 ppm		
ACGIH	Remark (ACGIH)	TLV® Basis: URT irr; dizziness; headache. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans); BEI		
ACGIH	Regulatory reference	ACGIH 2021		
OSHA	OSHA PEL (TWA) [1]	410 mg/m ³		
OSHA	OSHA PEL (TWA) [2]	100 ppm		
OSHA	Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1		

Safety Data Sheet

benzotriazol-2-yl)-5	3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxypher -tert-butyl-4-hydroxyphenyl)propionyl-ω-3-(3-(2H-ben pionyloxypoly(oxyethylene)	nyl)propionyl-ω-hydroxypoly(oxyethylene) and α-3-(3-(2H- ızotriazol-2-yl)-5-tert-butyl-4-
	c(1.2.2.6.6 pontamothyl 4 pinaridyl) cabaasta and ma	thyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate (1065336-91-5)
Not applicable	s(1,2,2,0,0-pentametryi-4-pipendyi) sebacate and me	(100330-91-3)
	hylbenzene, m-xylene and p-xylene	
Not applicable		
Xylene (1330-20-7)		
ACGIH	Local name	Xylene, mixed isomers (Dimethylbenzene)
ACGIH	ACGIH OEL TWA [ppm]	100 ppm
ACGIH	ACGIH OEL STEL [ppm]	150 ppm
ACGIH	Remark (ACGIH)	TLV® Basis: URT & eye irr; CNS impair. Notations: A4 (Not classifiable as a Human Carcinogen); BEI
ACGIH	Regulatory reference	ACGIH 2021
OSHA	OSHA PEL (TWA) [1]	435 mg/m ³
OSHA	OSHA PEL (TWA) [2]	100 ppm
OSHA	Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
Ethylbenzene (100-	41-4)	
ACGIH	Local name	Ethylbenzene
ACGIH	ACGIH OEL TWA [ppm]	20 ppm
ACGIH	Remark (ACGIH)	TLV® Basis: URT irr; kidney dam (nephropathy); cochlear impair. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans); BEI
ACGIH	Regulatory reference	ACGIH 2021
OSHA	OSHA PEL (TWA) [1]	435 mg/m ³
OSHA	OSHA PEL (TWA) [2]	100 ppm
OSHA	Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
2-butoxyethyl aceta	ite, butylglycol acetate (112-07-2)	
ACGIH	Local name	2-Butoxyethyl acetate (EGBEA)
ACGIH	ACGIH OEL TWA [ppm]	20 ppm
ACGIH	Remark (ACGIH)	TLV® Basis: Hemolysis. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)
ACGIH	Regulatory reference	ACGIH 2021
methyl acetate (79-2	20-9)	
ACGIH	Local name	Methyl acetate
ACGIH	ACGIH OEL TWA [ppm]	200 ppm
ACGIH	ACGIH OEL STEL [ppm]	250 ppm
ACGIH	Remark (ACGIH)	TLV® Basis: Headache; dizziness; nausea; eye dam (degeneration of ganglion cells in the retina)
ACGIH	Regulatory reference	ACGIH 2021
OSHA	OSHA PEL (TWA) [1]	610 mg/m ³
OSHA	OSHA PEL (TWA) [2]	200 ppm
OSHA	Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
Not applicable	etroleum), light aromatic (64742-95-6)	
acetone (67-64-1) ACGIH	Local name	Acetone

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

acetone (67-64-1)			
ACGIH	ACGIH OEL TWA [ppm]	250 ppm	
ACGIH	ACGIH OEL STEL [ppm]	500 ppm	
ACGIH	Remark (ACGIH)	TLV® Basis: URT & eye irr; CNS impair. Notations: A4 (Not classifiable as a Human Carcinogen); BEI	
ACGIH	Regulatory reference	ACGIH 2021	
OSHA	OSHA PEL (TWA) [1]	2400 mg/m ³	
OSHA	OSHA PEL (TWA) [2]	1000 ppm	
OSHA	Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1	

8.2. Appropriate engineering controls

Appropriate engineering controls Environmental exposure controls

: Avoid release to the environment.

: Ensure good ventilation of the work station.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Gas mask. Gloves. Protective clothing. Safety glasses.

Materials for protective clothing:

Impermeable clothing

Hand protection:

Protective gloves

Туре	Material	Permeation	Thickness (mm)	Penetration
Disposable gloves	Nitrile rubber (NBR)	3 (> 60 minutes)		

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

Air-fed respiratory protective equipment should be worn when this product is sprayed

Device	Filter type	Condition
Supplied-Air Respirator (SAR)		

Personal protective equipment symbol(s):



SECTION 9: Physical and chemical properties		
9.1. Information on basic physica	and chemical properties	
Physical state	: Liquid	
Appearance	: Liquid.	
Color	: Colorless	
Odor	: aromatic	
Odor threshold	: No data available	
рН	: No data available	
Melting point	: No data available	
Freezing point	: No data available	

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Boiling point	: > 35 °C
Flash point	: 22 °C
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Not applicable.
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Density	: 0.935 (0.92 – 0.95) g/cm ³
Solubility	: insoluble in water. soluble in most organic solvents.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
No data availableViscosity, kinematic	: > 20.5 mm²/s
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
9.2. Other information	

9.2. Other information

As Packaged Regulatory VOC	: 583 g/l (4.87 lb/gal)
As Packaged Actual VOC	: 583 g/l (4.87 lb/gal)
As Applied Regulatory VOC	: 589 g/l (4.9 lbs/gal)
As Applied Actual VOC	: 589 g/l (4.9 lbs/gal)
Water Content	0 wt%
Exempt Compounds by volume	: 0 vol %
Exempt Compounds by weight	: 0 wt%
Volatiles	: 62.3 wt%
% EPA HAPS	: 36.0 wt%
Percent Solids	: 37.73 wt%
Percent Solids	: 32.01 vol %

SECTION 10: Stability and reactivity		
10.1. Reactivity		
Highly flammable liquid and vapor.		
10.2. Chemical stability		
Stable under normal conditions.		
10.3. Possibility of hazardous reactions		
No dangerous reactions known under normal conditions of use.		
10.4. Conditions to avoid		
Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.		
0.5. Incompatible materials		
No additional information available		
10.6. Hazardous decomposition products		
Under normal conditions of storage and use, hazardous decomposition products should not be produced.		
SECTION 11: Toxicological information		
11.1. Information on toxicological effects		
Acute toxicity (oral) : Not classified		
Acute toxicity (dermal) : Not classified		
Acute toxicity (inhalation) : Not classified		

Safety Data Sheet

n-butyl acetate (123-86-4)	
LD50 oral rat	10760 – 12789 mg/kg body weight (Equivalent or similar to OECD 423, Rat, Male / female, Experimental value, Oral)
LD50 dermal rabbit	14112 mg/kg body weight (Equivalent or similar to OECD 402, Rabbit, Male / female, Experimental value, Dermal)
LC50 Inhalation - Rat [ppm]	390 ppm/4h
ATE US (oral)	10760 mg/kg body weight
ATE US (dermal)	14112 mg/kg body weight
ATE US (gases)	390 ppmV/4h
4-methylpentan-2-one, isobutyl methyl keton	e (108-10-1)
LD50 oral rat	2080 mg/kg body weight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), 95% CL: 1,91 - 2,27
LD50 dermal rat	≥ 2000 mg/kg body weight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal, 14 day(s))
ATE US (oral)	2080 mg/kg body weight
ATE US (gases)	4500 ppmV/4h
ATE US (vapors)	10 mg/l/4h
ATE US (dust, mist)	1.5 mg/l/4h
	-5-tert-butyl-4-hydroxyphenyl)propionyl-ω-hydroxypoly(oxyethylene) and α-3-(3-(2H- yl)propionyl-ω-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4- e)
LD50 oral rat	> 5000 mg/kg (OECD Guideline No. 401 (equivalent to Annex V), limit test, rat, male/female)
LD50 dermal rat	> 2000 mg/kg (OECD Guideline No. 402 (equivalent to Annex V), limit test, rat, male/female)
LC50 Inhalation - Rat	5800 mg/l (OECD Guideline 403, 14d, rat)
ATE US (vapors)	5800 mg/l/4h
ATE US (dust, mist)	5800 mg/l/4h
reaction mass of bis(1.2.2.6.6-pentamethyl-4-	piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate (1065336-91-5)
LD50 oral rat	3230 mg/kg (OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method), rat, male/female)
LD50 dermal rat	> 3170 mg/kg (OECD Guideline 402 (Acute Dermal Toxicity), read-across,
ATE US (oral)	3230 mg/kg body weight
reaction mass of ethylbenzene, m-xylene and	p-xylene
LD50 oral rat	3523 mg/kg (EU Method B.1 (Acute Toxicity (Oral), rat, male)
LD50 dermal rabbit	12126 mg/kg body weight Animal: rabbit, Animal sex: male
LC50 Inhalation - Rat [ppm]	6350 ppm/4h (4 h, EU Method B.2 (Acute Toxicity (Inhalation)), rat, male, Inhalation, vapours)
ATE US (oral)	3523 mg/kg body weight
ATE US (dermal)	1100 mg/kg body weight
ATE US (gases)	6350 ppmV/4h
ATE US (vapors)	11 mg/l/4h
ATE US (dust, mist)	1.5 mg/l/4h
Xylene (1330-20-7)	
LD50 oral rat	3523 mg/kg body weight (Equivalent or similar to EU Method B.1: Acute Toxicity (Oral), Rat, Male, Experimental value, Oral, 14 day(s))
LD50 dermal rat	12126 mg/kg (Non-GLP, read-across from supporting substance, single dermal dose under occlusion followed by observation for 14 days)
LD50 dermal rabbit	12126 mg/kg body weight Animal: rabbit, Animal sex: male
LC50 Inhalation - Rat [ppm]	6700 ppm/4h (EU Method B.2 (Acute Toxicity (Inhalation)), 4h, rat, male)
ATE US (oral)	3523 mg/kg body weight
ATE US (dermal)	1100 mg/kg body weight
ATE US (gases)	6700 ppmV/4h
ATE US (vapors)	11 mg/l/4h
ATE US (dust, mist)	1.5 mg/l/4h
Ethylbenzene (100-41-4)	
LD50 oral rat	3500 mg/kg (Rat, Male / female, Experimental value, Oral, 14 dav(s))
LD50 oral rat	3500 mg/kg (Rat, Male / female, Experimental value, Oral, 14 day(s)) 15432 mg/kg body weight (24 h, Rabbit, Male, Experimental value, Dermal)
LD50 oral rat LD50 dermal rabbit LC50 Inhalation - Rat	3500 mg/kg (Rat, Male / female, Experimental value, Oral, 14 day(s)) 15432 mg/kg body weight (24 h, Rabbit, Male, Experimental value, Dermal) 17.8 mg/l (4 h, Rat, Male, Experimental value, Inhalation (vapours))

Safety Data Sheet

Ethylbenzene (100-41-4)	
ATE US (oral)	3500 mg/kg body weight
ATE US (dermal)	15432 mg/kg body weight
ATE US (gases)	4500 ppmV/4h
ATE US (vapors)	17.8 mg/l/4h
ATE US (dust, mist)	1.5 mg/l/4h
2-butoxyethyl acetate, butylglycol acetate (11	12-07-2)
LD50 oral rat	1880 mg/kg (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral)
LD50 dermal rabbit	1500 mg/kg (24 h, Rabbit, Experimental value, Dermal)
ATE US (oral)	1880 mg/kg body weight
ATE US (dermal)	1500 mg/kg body weight
ATE US (gases)	4500 ppmV/4h
ATE US (vapors)	11 mg/l/4h
ATE US (dust, mist)	1.5 mg/l/4h
methyl acetate (79-20-9)	
LD50 oral rat	6482 mg/kg body weight Animal: rat, Animal sex: male, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LD50 dermal rat	 > 2000 mg/kg body weight Animal: rat, Guideline: EU Method B.3 (Acute Toxicity (Dermal)), Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LC50 Inhalation - Rat	49 mg/l
ATE US (oral)	6482 mg/kg body weight
ATE US (vapors)	49 mg/l/4h
ATE US (dust, mist)	49 mg/l/4h
solvent naphtha (petroleum), light aromatic (
LD50 oral rat LD50 dermal rabbit	> 5000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
	> 3160 mg/kg (OECD Test Guideline 402)
acetone (67-64-1)	
LD50 oral rat	5800 mg/kg body weight Animal: rat, Animal sex: female
LD50 dermal rabbit	20000 mg/kg (Equivalent or similar to OECD 402, Rabbit, Male, Experimental value, Dermal)
LC50 Inhalation - Rat	76 mg/l air Animal: rat, Animal sex: female, 95% CL: 65,2 - 88,4
ATE US (oral)	5800 mg/kg body weight
ATE US (dermal)	20000 mg/kg body weight
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitization	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Suspected of causing cancer.
4-methylpentan-2-one, isobutyl methyl keton	
IARC group	2B - Possibly carcinogenic to humans
reaction mass of ethylbenzene, m-xylene and	i p-xvlene
IARC group	2B - Possibly carcinogenic to humans
Xylene (1330-20-7) IARC group	3 - Not classifiable
Ethylbenzene (100-41-4)	
IARC group	2B - Possibly carcinogenic to humans
Depreductive tovicity	· Not close if a
Reproductive toxicity	: Not classified
STOT-single exposure	: May cause respiratory irritation. May cause drowsiness or dizziness.
n-butyl acetate (123-86-4)	
STOT-single exposure	May cause drowsiness or dizziness.
4-methylpentan-2-one, isobutyl methyl keton	e (108-10-1)
STOT-single exposure	May cause respiratory irritation.
	אמא המשפר ובסטורמנטוא ווזוגמווטוו.
07/01/2021	EN (English US) SDS ID: S2088-D-US-SDS 9/19

Safety Data Sheet

reaction mass of ethylbenzene, m-xylene STOT-single exposure	May cause respiratory irritation.
Xylene (1330-20-7)	
STOT-single exposure	May cause respiratory irritation.
methyl acetate (79-20-9)	
STOT-single exposure	May cause drowsiness or dizziness.
solvent naphtha (petroleum), light aromat	ic (64742-95-6)
STOT-single exposure	May cause drowsiness or dizziness. May cause respiratory irritation.
acetone (67-64-1)	
STOT-single exposure	May cause drowsiness or dizziness.
TOT-repeated exposure	: May cause damage to organs through prolonged or repeated exposure.
4-methylpentan-2-one, isobutyl methyl ke	tone (108-10-1)
LOAEL (oral,rat,90 days)	1000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Da Oral Toxicity in Rodents)
NOAEL (oral,rat,90 days)	250 mg/kg body weight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
NOAEC (inhalation,rat,vapor,90 days)	4.106 mg/l air Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 9 Day Study)
reaction mass of ethylbenzene, m-xylene	and p-xylene
LOAEL (oral,rat,90 days)	150 mg/kg body weight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents), Guideline: EPA OPP 82-1 (90-Day Oral Toxicity)
NOAEL (oral,rat,90 days)	150 mg/kg bodyweight/day (OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents), female)
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Xylene (1330-20-7)	
LOAEL (oral,rat,90 days)	150 mg/kg body weight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents), Guideline: EPA OPP 82-1 (90-Day Oral Toxicity)
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Ethylbenzene (100-41-4)	
NOAEL (oral,rat,90 days)	75 mg/kg body weight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
methyl acetate (79-20-9)	
LOAEC (inhalation,rat,vapor,90 days)	2000 mg/l
NOAEC (inhalation,rat,vapor,90 days)	1057 mg/m ³
spiration hazard	: Not classified
iscosity, kinematic	$20.5 \text{ mm}^2/\text{s}$
	: May cause drowsiness or dizziness.
ymptoms/effects ymptoms/effects after inhalation	: May cause drowsiness of dizziness. : May cause respiratory irritation.
ymptoms/effects after skin contact	: Irritation. May cause an allergic skin reaction.
ymptoms/effects after eye contact	: Eye irritation.
ECTION 12: Ecological information	on and a second s
2.1. Toxicity	
cology - general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.
n-butyl acetate (123-86-4)	
LC50 - Fish [1]	18 mg/l Test organisms (species): Pimephales promelas

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

n-butyl acetate (123-86-4)	44 mail Test superiore (anasiar). Dankais an
EC50 - Crustacea [1]	44 mg/l Test organisms (species): Daphnia sp. 62 mg/l (Leuciscus idus, static system)
LC50 - Fish [2]	
NOEC (chronic)	23 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic crustacea	23 mg/l
4-methylpentan-2-one, isobutyl methyl	
LC50 - Fish [1]	> 179 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 - Crustacea [1]	> 200 mg/l Test organisms (species): Daphnia magna
	ol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-ω-hydroxypoly(oxyethylene) and α-3-(3-(2H- yphenyl)propionyl-ω-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4- •thylene)
LC50 - Fish [1]	2.8 mg/l (96 h, Oncorhynchus mykiss, Static system, Fresh water, Experimental value, Nominal concentration)
EC50 - Crustacea [1]	4 mg/l (48 h, Daphnia magna, Static system, Fresh water, Experimental value, Nominal concentration)
ErC50 algae	> 100 mg/l (72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Nominal concentration)
reaction mass of ethylbenzene, m-xyle	ne and p-xylene
LC50 - Fish [1]	2.6 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 - Crustacea [1]	 > 3.4 mg/l Test organisms (species): Creiodaphnia dubia
NOEC chronic fish	 > 1.3 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
	Duration: '56 d'
Xylene (1330-20-7)	
LC50 - Fish [1]	2.6 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 - Crustacea [1]	> 3.4 mg/l Test organisms (species): Ceriodaphnia dubia
ErC50 algae	4.36 mg/l (OECD 201: Alga, Growth Inhibition Test, 73 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP)
NOEC chronic fish	> 1.3 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) Duration: '56 d'
Ethylbenzene (100-41-4)	
LC50 - Fish [1]	5.1 mg/l Test organisms (species): Menidia menidia
EC50 - Crustacea [1]	1.8 – 2.4 mg/l (US EPA, 48 h, Daphnia magna, Static system, Fresh water, Experimental value)
LOEC (chronic)	1.7 mg/l Test organisms (species): Ceriodaphnia dubia Duration: '7 d'
NOEC (chronic)	0.96 mg/l Test organisms (species): Ceriodaphnia dubia Duration: '7 d'
2-butoxyethyl acetate, butylglycol acet	ate (112-07-2)
LC50 - Fish [1]	20 – 40 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oncorhynchus mykiss, Fresh water, Experimental value)
EC50 - Crustacea [1]	37 mg/l (DIN 38412-11, 48 h, Daphnia magna, Static system, Fresh water, Experimental value)
ErC50 algae	1570 mg/l (ISO 8692, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value)
methyl acetate (79-20-9)	
LC50 - Fish [1]	250 – 350 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 - Crustacea [1]	1026.7 mg/l Test organisms (species): Daphnia magna
acetone (67-64-1)	
LC50 - Fish [1]	5540 mg/l (EU Method C.1, 96 h, Salmo gairdneri, Static system, Fresh water, Experimental value, Nominal concentration)
LOEC (chronic)	 > 79 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	≥ 79 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
2.2. Persistence and degradability	

n-butyl acetate (123-86-4) Persistence and degradability Readily biodegradable in water. ThOD 2.21 g O₂/g substance BOD (% of ThOD) 0.46

Safety Data Sheet

4-methylpentan-2-one, isobutyl methyl ketor	ne (108-10-1)
Persistence and degradability	Biodegradable in the soil. Biodegradable in the soil under anaerobic conditions. Readily biodegradable in water.
Biochemical oxygen demand (BOD)	2.06 g O₂/g substance
Chemical oxygen demand (COD)	2.16 g O₂/g substance
ThOD	2.72 g O₂/g substance
Kylene (1330-20-7)	
Persistence and degradability	Biodegradable in the soil. Readily biodegradable in water.
Ethylbenzene (100-41-4)	
Persistence and degradability	Biodegradable in the soil. Readily biodegradable in water.
Biochemical oxygen demand (BOD)	1.44 g O ₂ /g substance
Chemical oxygen demand (COD)	
	2.1 g O ₂ /g substance
ThOD	3.17 g O₂/g substance
2-butoxyethyl acetate, butylglycol acetate (1	12-07-2)
Persistence and degradability	Readily biodegradable in water.
ThOD	2.1 g O₂/g substance
methyl acetate (79-20-9)	
Persistence and degradability	Readily biodegradable in water.
solvent naphtha (petroleum), light aromatic	
Persistence and degradability	May cause long-term adverse effects in the environment.
acetone (67-64-1)	
Persistence and degradability	Biodegradable in the soil. Biodegradable in the soil under anaerobic conditions. Readily biodegradable in water.
Biochemical oxygen demand (BOD)	1.43 g O₂/g substance
Chemical oxygen demand (COD)	1.92 g O ₂ /g substance
ThOD	
	2.2 g O_2 /g substance
BOD (% of ThOD)	0.872 (20 day(s), Literature study)
2.3. Bioaccumulative potential	
n-butyl acetate (123-86-4)	
BCF - Fish [1]	15.3 (Calculated value)
Partition coefficient n-octanol/water (Log Pow)	2.3 (Test data, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 25 °C)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
4-methylpentan-2-one, isobutyl methyl ketor	
Partition coefficient n-octanol/water (Log Pow)	1.9 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
benzotriazol-2-yl)-5-tert-butyl-4-hydroxypher	l)-5-tert-butyl-4-hydroxyphenyl)propionyl-ω-hydroxypoly(oxyethylene) and α-3-(3-(2H- nyl)propionyl-ω-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4- ne)
penzotriazol-2-yl)-5-tert-butyl-4-hydroxyphen hydroxyphenyl)propionyloxypoly(oxyethylen	nyl)propionyl-ω-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-
oenzotriazol-2-yl)-5-tert-butyl-4-hydroxypher hydroxyphenyl)propionyloxypoly(oxyethyler BCF - Fish [1]	 nyl)propionyl-ω-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4- ne) 2658 – 3430 (502 h, Oncorhynchus mykiss, Flow-through system, Fresh water, Experimental value)
oenzotriazol-2-yl)-5-tert-butyl-4-hydroxypher hydroxyphenyl)propionyloxypoly(oxyethyler BCF - Fish [1]	nyl)propionyl-ω-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4- ne) 2658 – 3430 (502 h, Oncorhynchus mykiss, Flow-through system, Fresh water, Experimental
penzotriazol-2-yl)-5-tert-butyl-4-hydroxyphen hydroxyphenyl)propionyloxypoly(oxyethyler BCF - Fish [1] Partition coefficient n-octanol/water (Log Pow)	 nyl)propionyl-ω-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4- ne) 2658 – 3430 (502 h, Oncorhynchus mykiss, Flow-through system, Fresh water, Experimental value)
benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphen hydroxyphenyl)propionyloxypoly(oxyethyler BCF - Fish [1] Partition coefficient n-octanol/water (Log Pow) (ylene (1330-20-7)	 nyl)propionyl-ω-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4- ne) 2658 – 3430 (502 h, Oncorhynchus mykiss, Flow-through system, Fresh water, Experimental value)
benzotriazol-2-yl)-5-tert-butyl-4-hydroxypher hydroxyphenyl)propionyloxypoly(oxyethyler BCF - Fish [1] Partition coefficient n-octanol/water (Log Pow) Kylene (1330-20-7) BCF - Fish [1]	 hyl)propionyl-ω-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4- 2658 – 3430 (502 h, Oncorhynchus mykiss, Flow-through system, Fresh water, Experimental value) 4.6 (Experimental value, Equivalent or similar to OECD 117, 25 °C)
benzotriazol-2-yl)-5-tert-butyl-4-hydroxypher hydroxyphenyl)propionyloxypoly(oxyethyler BCF - Fish [1] Partition coefficient n-octanol/water (Log Pow) Kylene (1330-20-7) BCF - Fish [1] Partition coefficient n-octanol/water (Log Pow)	 hyl)propionyl-ω-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4- ne) 2658 – 3430 (502 h, Oncorhynchus mykiss, Flow-through system, Fresh water, Experimental value) 4.6 (Experimental value, Equivalent or similar to OECD 117, 25 °C) 7.2 – 25.9 (56 day(s), Oncorhynchus mykiss, Flow-through system, Fresh water, Read-acros
benzotriazol-2-yl)-5-tert-butyl-4-hydroxypher hydroxyphenyl)propionyloxypoly(oxyethyler BCF - Fish [1] Partition coefficient n-octanol/water (Log Pow) Xylene (1330-20-7) BCF - Fish [1] Partition coefficient n-octanol/water (Log Pow) Bioaccumulative potential	 hyl)propionyl-ω-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4- ne) 2658 – 3430 (502 h, Oncorhynchus mykiss, Flow-through system, Fresh water, Experimental value) 4.6 (Experimental value, Equivalent or similar to OECD 117, 25 °C) 7.2 – 25.9 (56 day(s), Oncorhynchus mykiss, Flow-through system, Fresh water, Read-acros 3.2 (Read-across, 20 °C)
	 hyl)propionyl-ω-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4- ne) 2658 – 3430 (502 h, Oncorhynchus mykiss, Flow-through system, Fresh water, Experimental value) 4.6 (Experimental value, Equivalent or similar to OECD 117, 25 °C) 7.2 – 25.9 (56 day(s), Oncorhynchus mykiss, Flow-through system, Fresh water, Read-acros 3.2 (Read-across, 20 °C)
benzotriazol-2-yl)-5-tert-butyl-4-hydroxypher hydroxyphenyl)propionyloxypoly(oxyethyler BCF - Fish [1] Partition coefficient n-octanol/water (Log Pow) Xylene (1330-20-7) BCF - Fish [1] Partition coefficient n-octanol/water (Log Pow) Bioaccumulative potential Ethylbenzene (100-41-4)	 hyl)propionyl-w-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4- ne) 2658 – 3430 (502 h, Oncorhynchus mykiss, Flow-through system, Fresh water, Experimental value) 4.6 (Experimental value, Equivalent or similar to OECD 117, 25 °C) 7.2 – 25.9 (56 day(s), Oncorhynchus mykiss, Flow-through system, Fresh water, Read-acros 3.2 (Read-across, 20 °C) Low potential for bioaccumulation (BCF < 500).

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

2-butoxyethyl acetate, butylglycol acetate (112-07-2)		
Partition coefficient n-octanol/water (Log Pow)	1.51 – 1.79	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).	
methyl acetate (79-20-9)		
BCF - Fish [1]	< 1 (Pisces, Literature study)	
Partition coefficient n-octanol/water (Log Pow)	0.18 (Experimental value, 20 °C)	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).	
solvent naphtha (petroleum), light aromatic (64742-95-6)		
Partition coefficient n-octanol/water (Log Pow)	2.1 – 6	
Bioaccumulative potential	Not established.	
acetone (67-64-1)		
BCF - Fish [1]	0.69 (Pisces)	
BCF - Other aquatic organisms [1]	3 (BCFWIN, Calculated value)	
Partition coefficient n-octanol/water (Log Pow)	-0.24 (Test data)	
Bioaccumulative potential	Not bioaccumulative.	

12.4. Mobility in soil

n-butyl acetate (123-86-4)				
Surface tension	0.0163 N/m (20 °C)			
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1.268 – 1.844 (log Koc, SRC PCKOCWIN v2.0, QSAR)			
Ecology - soil	Low potential for adsorption in soil.			
4-methylpentan-2-one, isobutyl methyl ketone (108-10-1)				
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2.008 (log Koc, Weight of evidence, Calculated value)			
Ecology - soil	Low potential for adsorption in soil.			

Xylene (1330-20-7)			
Surface tension	28.01 – 29.76 mN/m (25 °C)		
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2.73 (log Koc, Equivalent or similar to OECD 121, Read-across)		
Ecology - soil	Low potential for adsorption in soil. May be harmful to plant growth, blooming and fruit formation.		
Ethylbenzene (100-41-4)			
Surface tension	71.2 mN/m (23 °C, 0.058 g/l, EU Method A.5: Surface tension)		
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2.71 (log Koc, PCKOCWIN v1.66, QSAR)		
Ecology - soil	Low potential for adsorption in soil. Toxic to soil organisms.		
2-butoxyethyl acetate, butylglycol acetate (112-07-2)		
Surface tension	0.026 N/m (20 °C)		
Ecology - soil	No straightforward conclusion can be drawn based upon the available numerical values.		
methyl acetate (79-20-9)			
Surface tension	24 mN/m (20 °C)		
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0.18 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value, GLP)		
Ecology - soil	Highly mobile in soil.		
acetone (67-64-1)			
Surface tension	0.0237 N/m		
Ecology - soil	No (test)data on mobility of the substance available.		

12.5. Other adverse effects

Safety Data Sheet

SECTION 13: Disposal consideratio	ns
13.1. Disposal methods	
Regional legislation (waste) Waste treatment methods Additional information	 Disposal must be done according to official regulations. Dispose of contents/container in accordance with licensed collector's sorting instructions. Flammable vapors may accumulate in the container.
SECTION 14: Transport information	
Department of Transportation (DOT) In accordance with DOT	
Transport document description (DOT)	: UN1263 Paint (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) with not more than 20 per cent nitrocellulose by mass if the nitrogen content of the nitrocellulose is not more than 12.6 per cent by mass), 3, II
UN-No.(DOT)	: UN1263
Proper Shipping Name (DOT)	: Paint
	including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) with not more than 20 per cent nitrocellulose by mass if the nitrogen content of the nitrocellulose is not more than 12.6 per cent by mass
Class (DOT)	: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120
Packing group (DOT)	: II - Medium Danger
Hazard labels (DOT)	: 3 - Flammable liquid
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 173
DOT Packaging Bulk (49 CFR 173.xxx)	: 242

Safety Data Sheet

DOT Special Provisions (49 CFR 172.102)	: 149 - When transported as a limited quantity or a consumer commodity, the maximum net capacity specified in 173.150(b)(2) of this subchapter for inner packaging may be increased to
	 5 L (1.3 gallons). 367 - For the purposes of documentation and package marking: a. The proper shipping name "Paint related material" may be used for consignments of packages containing "Paint" and "Paint related material" in the same package; b. The proper shipping name "Paint related material, corrosive, flammable" may be used for consignments of packages containing "Paint, corrosive, flammable" and "Paint related material, corrosive, flammable" and "Paint related material, corrosive, flammable" and "Paint related material, corrosive, flammable" in the same package; c. The proper shipping name "Paint related material, flammable, corrosive" may be used for consignments of packages containing "Paint, flammable, corrosive" and "Paint related material, flammable, corrosive" in the same package; and d. The proper shipping name "Printing ink related material" in the same package. 383 - Packages containing to plastic or paper caps for toy pistols described as "UN0349, Articles, explosive, n.o.s. (Toy caps), 1.4S" or "NA0337, Toy caps, 1.4S" are not subject to the subpart E (labeling) requirements of this part when offered for transportation by motor vehicle, rail freight, cargo vessel, and cargo aircraft and, notwithstanding the packing method assigned in §173.62 of this subchapter, in conformance with the following conditions: B52 - Notwithstanding the provisions of 173.24b of this subchapter, non-reclosing pressure relief devices are authorized on DOT 57 portable tanks. B131 - When transported by highway, rail, or cargo vessel, waste Paint and Paint related material (UN1263; PG II and PG III), when in plastic or metal inner packagings of not more than 26.5 L (7 gallons), are excepted from the marking requirements in §172.301(a) and (c) and the labeling requirements in §172.400(a), when further packed in the following specification and non-specification bulk outer packagings and under the following conditions:
	a. Primary receptacles must conform to the general packaging requirements of subpart B of part 173 of this subchapter and may not leak. If they do leak, they must be overpacked in packagings conforming to the specification requirements of part 178 of this subchapter or in salvage packagings conforming to the requirements in §173.12 of this subchapter.
	b. Primary receptacles must be further packed in non-specification bulk outer packagings such as cubic yard boxes, plastic rigid-wall bulk containers, dump trailers, and roll-off containers. Bulk outer packagings must be liquid tight through design or by the use of lining materials.
	c. Primary receptacles may also be further packed in specification bulk outer packagings. Authorized specification bulk outer packagings are UN11G fiberboard intermediate bulk containers (IBC) and UN13H4 woven plastic, coated and with liner flexible intermediate bulk containers (FIBCs) meeting the Packing Group II performance level and lined with a plastic liner of at least 6 mil thickness.
	 d. All inner packagings placed inside bulk outer packagings must be blocked and braced to prevent movement during transportation that could cause the container to open or fall over. Specification IBCs and FIBCs are to be secured to a pallet. IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized. T4 - 2.65 178.274(d)(2) Normal
DOT Packaging Exceptions (49 CFR 173.xxx)	: 150
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 60 L
DOT Vessel Stowage Location	: B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.
Emergency Response Guide (ERG) Number	: 128
Other information	: No supplementary information available.
07/01/2021	EN (English US) SDS ID: S2088-D-US-SDS 15/19

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Transportation of Dangerous Goods

Transport document description (TDG)	:	UN1263 PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) with not more than 20 per cent nitrocellulose by mass if the nitrogen content of the nitrocellulose is not more than 12.6 per cent by mass), 3, II
UN-No. (TDG)	:	UN1263
Proper Shipping Name (TDG)	:	PAINT
TDG Primary Hazard Classes	:	3 - Class 3 - Flammable Liquids
Packing group (TDG)	:	II - Medium Danger
TDG Special Provisions	:	 59 - Substances that are listed by name in Schedule 1 must not be transported under this shipping name. Substances transported under this shipping name may contain not more than 20% nitrocellulose if the nitrocellulose contains not more than 12.6% nitrogen (by dry mass),142 - The following shipping names may be used to meet the requirements of Part 3 (Documentation) and Part 4 (Dangerous Goods Safety Marks) when these dangerous goods are offered for transport in the same means of containment: (a) "PAINT RELATED MATERIAL" may be used for a means of containment containing both paint and paint related material; (b) "PAINT RELATED MATERIAL, CORROSIVE, FLAMMABLE" may be used for a means of containment containing both paint, corrosive, flammable, and paint related material, corrosive, flammable; (c) "PAINT RELATED MATERIAL, FLAMMABLE, CORROSIVE" may be used for a means of containment containing both paint, flammable, corrosive, and paint related material, flammable, corrosive; and (d) "PRINTING INK RELATED MATERIAL" may be used for a means of containment containing both paint, flammable, not paint related material, flammable, corrosive; and
Explosive Limit and Limited Quantity Index	:	5 L
Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index	r:	5 L
Transport by sea		
Transport document description (IMDG)	:	UN 1263 PAINT, 3, II
UN-No. (IMDG)	:	1263
Proper Shipping Name (IMDG)	:	PAINT
Class (IMDG)	:	3 - Flammable liquids
Packing group (IMDG)	:	II - substances presenting medium danger
Limited quantities (IMDG)	:	5 L
Air transport		
Transport document description (IATA) UN-No. (IATA) Proper Shipping Name (IATA) Class (IATA) Packing group (IATA)	::	UN 1263 Paint, 3, II 1263 Paint 3 - Flammable Liquids II - Medium Danger

SECTION 15: Regulatory information

15.1. US Federal regulations

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

isobutyl methyl ketone	CAS-No. 108-10-1	< 5%
Xylene	CAS-No. 1330-20-7	5 – 23%
Ethylbenzene	CAS-No. 100-41-4	5 – 23%

n-butyl acetate (123-86-4)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
CERCLA RQ	5000 lb	

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

4-methylpentan-2-one, isobutyl methyl ketone	e (108-10-1)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory			
Listed on EPA Hazardous Air Pollutant (HAPS) Listed on EPA Hazardous Air Pollutant (HAPS)			
CERCLA RQ	5000 lb		
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)			
Listed on the United States TSCA (Toxic Substan	nces Control Act) inventory		
EPA TSCA Regulatory Flag	 FRI - FRI - indicates a polymeric substance containing no free-radical initiator in its Inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used. PMN - PMN - indicates a commenced PMN substance. XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711). 		
reaction mass of bis(1,2,2,6,6-pentamethyl-4-	piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate (1065336-91-5)		
Listed on the United States TSCA (Toxic Substan	nces Control Act) inventory		
reaction mass of ethylbenzene, m-xylene and	p-xylene		
Listed on the United States TSCA (Toxic Substan			
Xylene (1330-20-7)			
Listed on the United States TSCA (Toxic Substances Control Act) inventory Listed on EPA Hazardous Air Pollutant (HAPS)			
Listed on EPA Hazardous Air Pollutant (HAPS)			
CERCLA RQ	100 lb		
Ethylbenzene (100-41-4)			
Listed on the United States TSCA (Toxic Substances Control Act) inventory Listed on EPA Hazardous Air Pollutant (HAPS)			
Listed on EPA Hazardous Air Pollutant (HAPS)			
CERCLA RQ	1000 lb		
2-butoxyethyl acetate, butylglycol acetate (112-07-2)			
Listed on the United States TSCA (Toxic Substances Control Act) inventory			
methyl acetate (79-20-9)			
Listed on the United States TSCA (Toxic Substances Control Act) inventory			
solvent naphtha (petroleum), light aromatic (64742-95-6)			
Listed on the United States TSCA (Toxic Substan	nces Control Act) inventory		
acetone (67-64-1)			
Listed on the United States TSCA (Toxic Substan	nces Control Act) inventory		
	CERCLA RQ 5000 lb		

15.2. International regulations

 CANADA

 n-butyl acetate (123-86-4)

 Listed on the Canadian DSL (Domestic Substances List)

 4-methylpentan-2-one, isobutyl methyl ketone (108-10-1)

 Listed on the Canadian DSL (Domestic Substances List)

 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)propionyl-ω-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)

 Listed on the Canadian DSL (Domestic Substances List)
 reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate (1065336-91-5)

 Listed on the Canadian DSL (Domestic Substances List)
 reaction mass of ethylbenzene, m-xylene and p-xylene

 Listed on the Canadian DSL (Domestic Substances List)
 Xylene (1330-20-7)

 Listed on the Canadian DSL (Domestic Substances List)
 Xylene (1330-20-7)

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Ethylbenzene (100-41-4)
Listed on the Canadian DSL (Domestic Substances List)
2-butoxyethyl acetate, butylglycol acetate (112-07-2)
Listed on the Canadian DSL (Domestic Substances List)
methyl acetate (79-20-9)
Listed on the Canadian DSL (Domestic Substances List)
solvent naphtha (petroleum), light aromatic (64742-95-6)
Listed on the Canadian DSL (Domestic Substances List)
acetone (67-64-1)
Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

4-methylpentan-2-one, isobutyl methyl ketone (108-10-1) Listed on IARC (International Agency for Research on Cancer)

Ethylbenzene (100-41-4)

Listed on IARC (International Agency for Research on Cancer)

15.3. US State regulations

WARNING: This product can expose you to 4-methylpentan-2-one, isobutyl methyl ketone, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Component	Carcinogenicity	Developmental toxicity	Reproductive toxicity male	Reproductive toxicity female	No significant risk level (NSRL)	Maximum allowable dose level (MADL)
4-methylpentan-2-one, isobutyl methyl ketone(108-10-1)	X	X				
toluene(108-88-3)		х				7000 µg/day
Ethylbenzene(100-41- 4)	X				54 μg/day (inhalation); 41 μg/day (oral)	

Component	State or local regulations
Xylene(1330-20-7)	U.S Delaware - Pollutant Discharge Requirements - Reportable Quantities; U.S Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations; U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S. – New York City – Right to Know Hazardous Substances List; U.S Pennsylvania - RTK (Right to Know) List
Ethylbenzene(100-41-4)	U.S Delaware - Pollutant Discharge Requirements - Reportable Quantities; U.S Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations; U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S. – New York City – Right to Know Hazardous Substances List; U.S Pennsylvania - RTK (Right to Know) List
2-butoxyethyl acetate, butylglycol acetate(112-07-2)	U.S New Jersey - Right to Know Hazardous Substance List
methyl acetate(79-20-9)	U.S Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations; U.S New Jersey - Right to Know Hazardous Substance List; U.S. – New York City – Right to Know Hazardous Substances List; U.S Pennsylvania - RTK (Right to Know) List

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Component	State or local regulations
4-methylpentan-2-one, isobutyl methyl ketone(108-10-1)	U.S Delaware - Pollutant Discharge Requirements - Reportable Quantities; U.S Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations; U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S. – New York City – Right to Know Hazardous Substances List; U.S Pennsylvania - RTK (Right to Know) List
n-butyl acetate(123-86-4)	U.S Delaware - Pollutant Discharge Requirements - Reportable Quantities; U.S Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations; U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S. – New York City – Right to Know Hazardous Substances List; U.S Pennsylvania - RTK (Right to Know) List
acetone(67-64-1)	U.S Delaware - Pollutant Discharge Requirements - Reportable Quantities; U.S Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations; U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S. – New York City – Right to Know Hazardous Substances List; U.S Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date	: 01/08/2020
NFPA health hazard	: 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.
NFPA fire hazard	: 3 - Liquids and solids (including finely divided suspended solids) that can be ignited under almost all ambient temperature conditions.
NFPA reactivity	: 1 - Materials that in themselves are normally stable but can become unstable at elevated temperatures and pressures.

SDS US GHS (GHS HazCom2012)

For professional use only.

The information contained within this Safety Data Sheet (SDS) is believed to be correct as of the date issued however it is subject to change from time to time. It does not purport to be all inclusive or exhaustive and shall only be used as a guide. U-POL makes no warranties, expressed or implied, including but not limited to, any implied warranty of fitness for a given purpose or usage. It is the Buyers responsibility to ensure the suitability of the products for their own use and to check the information is up to date. U-POL cannot be held responsible for the suitability of use for any of its products, considering the wide range of factors such as application, substrates and handling methods. Since these conditions of use are outside of our control, the company shall not be held liable for any damage resulting from handling or from contact with the product detailed. Moreover, addition of reducers, hardeners or other additives over and above U-POL's recommendations for use, may substantially after the composition and hazards of the product. U-POL data sheets are available via the U-POL website at WWW.U-POL.COM.