

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations SDS ID: R1KRBCGB-US-SDS Issue date: 9/24/2021 Version: 1.0

SECTION 1: Identification		
1.1. Identification		
Product form Trade name JP Number	: Mixture : UP4900 RAPTOR 1K F : UP4900	Roll Bar & Chassis - Gloss Black
1.2. Recommended use and restrictions of	on use	
Use of the substance/mixture	: Coatings and paints, th	inners, paint removers
1.3. Supplier		
U-POL US Inc Inc. 108 Commerce Way Easton, Pennsylvania, PA 18083 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 - 1-800-42	24-9300
SECTION 2: Hazard(s) identification 2.1. Classification of the substance or mi	xture	
GHS US classification		
Flammable aerosol Category 1 Gases under pressure Compressed gas Serious eye damage/eye irritation Category 2 Skin sensitization, Category 1 Carcinogenicity Category 2 Specific target organ toxicity — Single exposure, C Specific target organ toxicity (repeated exposure)		Extremely flammable aerosol Contains gas under pressure; may explode if heated Causes serious eye irritation May cause an allergic skin reaction Suspected of causing cancer May cause drowsiness or dizziness May cause damage to organs through prolonged or repeated exposure
2.2. GHS Label elements, including preca	utionary statements	
GHS US labeling		
Hazard pictograms (GHS US)		
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Signal word (GHS US) Hazard statements (GHS US) Danger
Extremely flammable aerosol
Contains gas under pressure; may explode if heated
May cause an allergic skin reaction
Causes serious eye irritation
May cause drowsiness or dizziness
Suspected of causing cancer
May cause damage to organs through prolonged or repeated exposure

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Store in a well-ventilated place. Keep container tightly closed. Store locked up. Protect from sunlight. Store in a well-ventilated place. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.	Get medical advice/attention if you feel unwell. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Wash contaminated clothing before reuse.	Call a doctor if you feel unwell.	and easy to do. Continue rinsing.	If inhaled: Remove person to fresh air and keep comfortable for breathing.	Wear eye protection, Protective gloves, protective clothing. If on skin: Wash with plenty of water.	Use only outdoors or in a well-ventilated area. Contaminated work clothing must not be allowed out of the workplace.	Do not breathe fume, spray, vapors, mist. Wash hands thoroughly after handling.	Keep out of reach of children. 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. Do not spray on an open flame or other ignition source.	Precautionary statements (GHS US) : If medical advice is needed, have product container or label at hand.	Precautionary statements (GHS US)	 Keep out of reach of children. 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. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Do not breathe fume, spray, vapors, mist. 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 eye protection, Protective gloves, protective clothing. If on skin: Wash with plenty of water. 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. Call a doctor if you feel unwell. Get medical advice/attention if you feel unwell. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Wash contaminated clothing before reuse. Store in a well-ventilated place. Keep container tightly closed. Store locked up. Protect from sunlight. Store in a well-ventilated place. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Dispose of contents/container to hazardous or special waste collection point, in accordance with
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2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS US classification
methyl acetate	CAS-No.: 79-20-9	23 – 43	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
Naphtha (petroleum), hydrotreated heavy, Low boiling point hydrogen treated naphtha	CAS-No.: 64742-48-9	< 5	Flam. Liq. 3, H226 STOT SE 3, H336 Asp. Tox. 1, H304
carbon black	CAS-No.: 1333-86-4	< 5	Carc. 2, H351

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Name	Product identifier	%	GHS US classification
Xylene	CAS-No.: 1330-20-7	< 5	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
propan-2-ol	CAS-No.: 67-63-0	< 5	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
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
ethylbenzene	CAS-No.: 100-41-4	< 5	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation:vapour), H332 Carc. 2, H351 STOT RE 2, H373 Asp. Tox. 1, H304
reaction mass of ethylbenzene, m-xylene and p-xylene	CAS-No.: 1065336- 91-5	< 5	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
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.: 100-41-4/ 108-38-3/ 106-42-3	< 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 measures

4.1. Description of first aid measures	
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.
First-aid measures after skin contact	: Wash skin with plenty of water. Take off 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.

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Symptoms/effects	: May cause drowsiness or dizziness.
Symptoms/effects after skin contact	: May cause an allergic skin reaction.
Symptoms/effects after eye contact	: Eve irritation.

Treat symptomatically.

SECTION 5: Fire-fighting measures			
5.1. Suitable (and unsuitable) extinguishin	g media		
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.		
5.2. Specific hazards arising from the cher	nical		
Fire hazard Hazardous decomposition products in case of fire	Extremely flammable aerosol.Toxic fumes may be released.		
5.3. Special protective equipment and pred	cautions for fire-fighters		
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		
6.1.1. For non-emergency personnel			
Emergency procedures	: Ventilate spillage area. No open flames, no sparks, and no smoking. Do not breathe fume, mist, spray, vapors. Avoid contact with skin and eyes.		
6.1.2. For emergency 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.			
6.3. Methods and material for contain	ment and cleaning up		
Methods for cleaning up Other information	Mechanically recover the product. Notify authorities if product enters sewers or public waters.Dispose of materials or solid residues at an authorized site.		
6.4. Reference to other sections			

For further information refer to section 13.

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SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling Hygiene measures	 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Do not breathe fume, mist, spray, vapors. Use only outdoors or in a well-ventilated area. Avoid contact with skin and eyes. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, including a	
Storage conditions	: Protect from sunlight. Store in a well-ventilated place. Do not expose to temperatures exceeding 50 °C/ 122 °F. Store locked up. Keep container tightly closed. Keep cool.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

UP4900 RAPTOR 1K Roll Bar & Chassis - Glo	oss Black	
No additional information available		
methyl acetate (79-20-9)		
USA - ACGIH - Occupational Exposure Limits		
Local name	Methyl acetate	
ACGIH OEL TWA [ppm]	200 ppm	
ACGIH OEL STEL [ppm]	250 ppm	
Remark (ACGIH)	TLV® Basis: Headache; dizziness; nausea; eye dam (degeneration of ganglion cells in the retina)	
Regulatory reference	ACGIH 2021	
USA - OSHA - Occupational Exposure Limits		
Local name	Methyl acetate	
OSHA PEL (TWA) [1]	610 mg/m ³	
OSHA PEL (TWA) [2]	200 ppm	
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1	
Xylene (1330-20-7)		
USA - ACGIH - Occupational Exposure Limits		
Local name	Xylene, mixed isomers (Dimethylbenzene)	
ACGIH OEL TWA [ppm]	100 ppm	
ACGIH OEL STEL [ppm]	150 ppm	
Remark (ACGIH)	TLV® Basis: URT & eye irr; CNS impair. Notations: A4 (Not classifiable as a Human Carcinogen); BEI	
Regulatory reference	ACGIH 2021	

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Xylene (1330-20-7)			
USA - ACGIH - Biological Exposure Indices			
Local name	XYLENES (Technical or commercial grade)		
BEI (BLV)	1.5 g/g Kreatinin Parameter: Methylhippuric acids - Medium: urine - Sampling time: End of shift		
Regulatory reference	ACGIH 2021		
USA - OSHA - Occupational Exposure Limits			
Local name	Xylenes (o-, m-, p-isomers)		
OSHA PEL (TWA) [1]	435 mg/m ³		
OSHA PEL (TWA) [2]	100 ppm		
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1		
Naphtha (petroleum), hydrotreated heavy, Lo	bw boiling point hydrogen treated naphtha (64742-48-9)		
No additional information available			
ethylbenzene (100-41-4)			
USA - ACGIH - Occupational Exposure Limits			
Local name	Ethylbenzene		
ACGIH OEL TWA [ppm]	20 ppm		
Remark (ACGIH)	TLV® Basis: URT irr; kidney dam (nephropathy); cochlear impair. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans); BEI		
Regulatory reference	ACGIH 2021		
USA - ACGIH - Biological Exposure Indices			
Local name	ETHYLBENZENE		
BEI (BLV)	0.15 g/g Kreatinin Parameter: Sum of mandelic acid and phenylglyoxylic acid (with hydrolysis) - Medium: urine - Sampling time: End of shift - Notations: Ns		
Regulatory reference	ACGIH 2021		
USA - OSHA - Occupational Exposure Limits			
Local name	Ethyl benzene		
OSHA PEL (TWA) [1]	435 mg/m ³		
OSHA PEL (TWA) [2]	100 ppm		
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1		
propan-2-ol (67-63-0)			
USA - ACGIH - Occupational Exposure Limits			
Local name	2-Propanol		
ACGIH OEL TWA [ppm]	200 ppm		
ACGIH OEL STEL [ppm]	400 ppm		
Remark (ACGIH)	TLV® Basis: Eye & URT irr; CNS impair. Notations: A4 (Not classifiable as a Human Carcinogen); BEI		
Regulatory reference	ACGIH 2021		
USA - ACGIH - Biological Exposure Indices			
Local name	2-PROPANOL		

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propan-2-ol (67-63-0)		
BEI (BLV)	40 mg/l Parameter: Acetone - Medium: urine - Sampling time: End of shift at end of workweek - Notations: B, Ns	
Regulatory reference	ACGIH 2021	
USA - OSHA - Occupational Exposure Limits		
Local name	Isopropyl alcohol	
OSHA PEL (TWA) [1]	980 mg/m ³	
OSHA PEL (TWA) [2]	400 ppm	
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1	
reaction mass of ethylbenzene, m-xylene and	i p-xylene	
No additional information available		
reaction mass of α-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-ω-hydroxypoly(oxyethylene) and α-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)		
No additional information available		
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)		
No additional information available		
2-butoxyethyl acetate, butylglycol acetate (112-07-2)		
USA - ACGIH - Occupational Exposure Limits		
Local name	2-Butoxyethyl acetate (EGBEA)	
ACGIH OEL TWA [ppm]	20 ppm	
Remark (ACGIH)	TLV® Basis: Hemolysis. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)	
Regulatory reference	ACGIH 2021	
carbon black (1333-86-4)		
USA - ACGIH - Occupational Exposure Limits		
Local name	Carbon black	
ACGIH OEL TWA	3 mg/m ³ (Inhalable fraction)	
Remark (ACGIH)	TLV® Basis: Bronchitis. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)	
Regulatory reference	ACGIH 2021	
USA - OSHA - Occupational Exposure Limits		
Local name	Carbon black	
OSHA PEL (TWA) [1]	3.5 mg/m ³	
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1	
8.2. Appropriate engineering controls		
Appropriate engineering controls :	Ensure good ventilation of the work station. Avoid release to the environment.	

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8.3. Individual protection measures/Personal protective equipment	
Hand protection:	
Protective gloves	
Eye protection:	
Safety glasses	
Skin and body protection:	
Wear suitable protective clothing	
Respiratory protection:	
In case of insufficient ventilation, wear suitable respiratory equipment	

Personal protective equipment symbol(s):



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: aerosol.
Color	: Black
Odor	: characteristic
Odor threshold	: No data available
рН	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Extremely flammable aerosol.
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Density	: 0.819 g/cm ³
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
9.2. Other information	

VOC content	: 708.99 g/l
As Packaged Regulatory VOC	: 621.55 g/l (5.18 lbs gal)
As Packaged Actual VOC	: 447.05 g/l (3.73 lbs gal)

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As Applied Regulatory VOC	(621.55 g/l)(2.72 [bo go])
As Applied Regulatory VOC	: 621.55 g/l (3.73 lbs gal)
As Applied Actual VOC	: 447.05 g/l (3.73 lbs gal)
Percent Solids	: 13.39 wt%
Percent Solids	: 9.63 vol %
Volatiles	: 86.6 wt%
Water Content	: 0 wt%
Water Content	: 0 vol %
Exempt Compounds by weight	: 32.0 wt%
Exempt Compounds by volume	: 28.1 vol %
% EPA HAPS	: 1.5 wt%
Maximum Incremental Reactivity (MIR)	: 0.81
MIR EPA Aerosol Category	: Non-Flat Coating - NFP 1.4
MIR CARB Aerosol Category	: Nonflat Coating - General Coatings - NFP 0.95
Bay Area Aerosol Category	: General Coatings - Non-Flat Paint Products - max. 65% VOC

SECTION 10: Stability and reactivity

10.1. Reactivity

Extremely flammable aerosol.

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.

10.5. 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 (dermal) :	Not classified Not classified Not classified	
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	

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methyl acetate (79-20-9)	methyl acetate (79-20-9)	
ATE US (dust, mist)	49 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	
Naphtha (petroleum), hydrotreated heavy, Low boiling point hydrogen treated naphtha (64742-48-9)		
LD50 oral rat	> 5000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)	
ethylbenzene (100-41-4)		
LD50 oral rat	3500 mg/kg (Rat, Male / female, Experimental value, Oral, 14 day(s))	
LD50 dermal rabbit	15432 mg/kg body weight (24 h, Rabbit, Male, Experimental value, Dermal)	
LC50 Inhalation - Rat	17.8 mg/l (4 h, Rat, Male, Experimental value, Inhalation (vapours))	
ATE US (oral)	3500 mg/kg body weight	
ATE US (dermal)	15432 mg/kg body weight	
ATE US (vapors)	17.8 mg/l/4h	
ATE US (dust, mist)	17.8 mg/l/4h	
propan-2-ol (67-63-0)		
LD50 oral rat	5840 mg/kg body weight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)	
LD50 dermal rabbit	16400 ml/kg (Equivalent or similar to OECD 402, 24 h, Rabbit, Experimental value, Dermal, 14 day(s))	
LC50 Inhalation - Rat [ppm]	> 10000 ppm (Equivalent or similar to OECD 403, 6 h, Rat, Male / female, Experimental value, Inhalation (vapours), 14 day(s))	
ATE US (oral)	5840 mg/kg body weight	
ATE US (dermal)	12882 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	

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reaction mass of ethylbenzene, m-xylene and	p-xylene
ATE US (gases)	6350 ppmV/4h
ATE US (vapors)	11 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- henyl)propionyl-ω-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4- ∋)
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-p (1065336-91-5)	piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate
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
2-butoxyethyl acetate, butylglycol acetate (112	2-07-2)
LD50 oral rat	1880 mg/kg (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 14 day(s))
LD50 dermal rabbit	1500 mg/kg (24 h, Rabbit, Experimental value, Dermal, 14 day(s))
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
carbon black (1333-86-4)	
LD50 oral rat	> 8000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LC50 Inhalation - Rat	> 4.6 mg/l air (Equivalent or similar to OECD 403, 4 h, Rat, Experimental value, Inhalation (dust))
	Not classified
	Causes serious eye irritation.
	May cause an allergic skin reaction. Not classified
	Suspected of causing cancer.
Xylene (1330-20-7)	
IARC group	3 - Not classifiable
ethylbenzene (100-41-4)	<u>.</u>
IARC group	2B - Possibly carcinogenic to humans

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propan-2-ol (67-63-0)		
IARC group	3 - Not classifiable	
reaction mass of ethylbenzene, m-xylene	and p-xylene	
IARC group	2B - Possibly carcinogenic to humans	
carbon black (1333-86-4)		
IARC group	2B - Possibly carcinogenic to humans	
Reproductive toxicity	: Not classified	
STOT-single exposure	: May cause drowsiness or dizziness.	
methyl acetate (79-20-9)		
STOT-single exposure	May cause drowsiness or dizziness.	
Xylene (1330-20-7)		
STOT-single exposure	May cause respiratory irritation.	
Naphtha (petroleum), hydrotreated heavy	y, Low boiling point hydrogen treated naphtha (64742-48-9)	
STOT-single exposure	May cause drowsiness or dizziness.	
propan-2-ol (67-63-0)		
STOT-single exposure	May cause drowsiness or dizziness.	
reaction mass of ethylbenzene, m-xylene and p-xylene		
STOT-single exposure	May cause respiratory irritation.	
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/m³	
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.	
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.	
Aspiration hazard /iscosity, kinematic	: Not classified : No data available	

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Symptoms/effects

- : May cause drowsiness or dizziness.
 - : May cause an allergic skin reaction.
- Symptoms/effects after skin contact Symptoms/effects after eye contact
- : Eye irritation.

SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - general :	The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.
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
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'
propan-2-ol (67-63-0)	
LC50 - Fish [1]	10000 mg/l Test organisms (species): Pimephales promelas
LC50 - Fish [2]	9640 mg/l Test organisms (species): Pimephales promelas
reaction mass of ethylbenzene, m-xylene and	l 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): Ceriodaphnia dubia
NOEC chronic fish	> 1.3 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) Duration: '56 d'
reaction mass of α-3-(3-(2H-benzotriazol-2-yl) (2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyp hydroxyphenyl)propionyloxypoly(oxyethylen	-5-tert-butyl-4-hydroxyphenyl)propionyl-ω-hydroxypoly(oxyethylene) and α-3-(3 henyl)propionyl-ω-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4- e)
LC50 - Fish [1]	2.8 mg/l (96 h, Oncorhynchus mykiss, Static system, Fresh water, Experimental value, Nomina 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)

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2-butoxyethyl acetate, butylglycol acetate (112-07-2)		
LC50 - Fish [1]	20 – 40 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oncorhynchus mykiss, Fresh water, Experimental value, Nominal concentration)	
EC50 - Crustacea [1]	37 mg/l (DIN 38412-11, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)	
ErC50 algae	1570 mg/l (ISO 8692, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Nominal concentration)	
carbon black (1333-86-4)		
LC50 - Fish [1]	> 1000 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Danio rerio, Semi-static system, Fresh water, Experimental value, Lethal)	
EC50 - Crustacea [1]	> 5600 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 24 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)	
ErC50 algae	> 10000 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, Nominal concentration)	

12.2. Persistence and degradability

Readily biodegradable in water.		
Biodegradable in the soil. Readily biodegradable in water.		
Biodegradable in the soil. Readily biodegradable in water.		
1.44 g O ₂ /g substance		
2.1 g O ₂ /g substance		
3.17 g O ₂ /g substance		
propan-2-ol (67-63-0)		
Biodegradable in the soil. Biodegradable in the soil under anaerobic conditions. Readily biodegradable in water.		
1.19 g O ₂ /g substance		
2.23 g O ₂ /g substance		
2.4 g O ₂ /g substance		
2-butoxyethyl acetate, butylglycol acetate (112-07-2)		
Readily biodegradable in water.		
2.1 g O ₂ /g substance		
carbon black (1333-86-4)		
Biodegradability in soil: not applicable. Biodegradability: not applicable.		
Not applicable (inorganic)		
Not applicable (inorganic)		

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12.3. Bioaccumulative potential		
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).	
Xylene (1330-20-7)		
BCF - Fish [1]	7.2 – 25.9 (56 day(s), Oncorhynchus mykiss, Flow-through system, Fresh water, Read-across)	
Partition coefficient n-octanol/water (Log Pow)	3.2 (Read-across, 20 °C)	
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).	
ethylbenzene (100-41-4)	·	
BCF - Fish [1]	1 (6 week(s), Oncorhynchus kisutch, Flow-through system, Salt water, Experimental value)	
Partition coefficient n-octanol/water (Log Pow)	3.6 (Experimental value, EU Method A.8: Partition Coefficient, 20 °C)	
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).	
propan-2-ol (67-63-0)		
Partition coefficient n-octanol/water (Log Pow)	0.05 (Weight of evidence approach, 25 °C)	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).	
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)		
BCF - Fish [1]	2658 – 3430 (502 h, Oncorhynchus mykiss, Flow-through system, Fresh water, Experimental value)	
Partition coefficient n-octanol/water (Log Pow)	4.6 (Experimental value, Equivalent or similar to OECD 117, 25 °C)	
2-butoxyethyl acetate, butylglycol acetate (11	2-07-2)	
Partition coefficient n-octanol/water (Log Pow)	1.51 (Experimental value, BASF test, 25 °C)	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).	
carbon black (1333-86-4)		
Bioaccumulative potential	Not bioaccumulative.	
12.4. Mobility in soil		
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.	
Xylene (1330-20-7)		
Surface tension	28.01 – 29.76 mN/m (25 °C)	

(Log Koc)

Organic Carbon Normalized Adsorption Coefficient

2.73 (log Koc, Equivalent or similar to OECD 121, Read-across)

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Xylene (1330-20-7)	
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.
propan-2-ol (67-63-0)	
Surface tension	No data available (test not performed)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0.185 – 0.541 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
Ecology - soil	Highly mobile in soil.
2-butoxyethyl acetate, butylglycol acetate (1	12-07-2)
Surface tension	No data available in the literature
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1.179 – 1.637 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
Ecology - soil	Highly mobile in soil.
carbon black (1333-86-4)	
Surface tension	Not applicable (solid)
Ecology - soil	No (test)data on mobility of the substance available. Not toxic to plants. Not toxic to animals.

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods

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

SECTION 14: Transport information

14.1. UN number	
DOT NA No	: UN1950
UN-No. (TDG)	: UN1950
UN-No. (IMDG)	: 1950
UN-No. (IATA)	: 1950
14.2. UN proper shipping name	
Proper Shipping Name (DOT)	: Aerosols
Proper Shipping Name (TDG)	: AEROSOLS
Proper Shipping Name (IMDG)	: AEROSOLS
Proper Shipping Name (IATA)	: Aerosols, flammable

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14.3. Transport hazard class(es)	
DOT Transport hazard class(es) (DOT) Hazard labels (DOT)	: 2.1 : 2.1
TDG Transport hazard class(es) (TDG) Hazard labels (TDG)	: 2.1 : 2.1
IMDG Transport hazard class(es) (IMDG) Hazard labels (IMDG)	: 2.1 : 2.1
IATA Transport hazard class(es) (IATA) Hazard labels (IATA)	2 : 2.1 : 2.1 2 2
14.4. Packing group	
Packing group (DOT) Packing group (TDG) Packing group (IMDG) Packing group (IATA)	 Not applicable Not applicable Not applicable Not applicable Not applicable
14.5. Environmental hazards	
Other information	: No supplementary information available.
14.6. Special precautions for user	
DOT UN-No.(DOT) DOT Special Provisions (49 CFR 172.102) DOT Packaging Exceptions (49 CFR 173.xxx) DOT Packaging Non Bulk (49 CFR 173.xxx) DOT Packaging Bulk (49 CFR 173.xxx) DOT Quantity Limitations Passenger aircraft/rail (49	 UN1950 N82 - See 173.306 of this subchapter for classification criteria for flammable aerosols. 306 None None 75 kg
CFR 173.27) DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 150 kg
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
DOT Vessel Stowage Other	 25 - Protected from sources of heat,87 - Stow "separated from" Class 1 (explosives) except Division 14,126 - Segregation same as for Class 9, miscellaneous hazardous materials
TDG UN-No. (TDG)	: UN1950

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TDG Special Provisions	 80 - Despite section 1.17 of Part 1 (Coming into Force, Repeal, Interpretation, General Provisions and Special Cases), a person must not offer for transport or transport these dangerous goods unless they are in a means of containment that is in compliance with the requirements for transporting gases in Part 5 (Means of Containment),107 - (1) These Regulations, except for Part 1 (Coming into Force, Repeal, Interpretation, General Provisions and Special Cases) and Part 2 (Classification), do not apply to the handling, offering for transport or transporting of UN1950, AEROSOLS, and UN2037, GAS CARTRIDGES, that contain dangerous goods included in Class 2.1 or Class 2.2 and that are transported on a road vehicle, a railway vehicle or a vessel on a domestic voyage, if the aerosols or gas cartridges have a capacity less than or equal to 50 mL. (2) Subsection (1) does not apply to self-defence spray.
Explosive Limit and Limited Quantity Index	: 1L
Excepted quantities (TDG)	: E0
Passenger Carrying Road Vehicle or Passenger	: 75 L
Carrying Railway Vehicle Index	
Emergency Response Guide (ERG) Number	: 126
IMDG Special provision (IMDG) Packing instructions (IMDG) Packing provisions (IMDG) EmS-No. (Fire) EmS-No. (Spillage) Stowage category (IMDG)	 63, 190, 277, 327, 344, 381, 959 P207, LP200 PP87, L2 F-D - FIRE SCHEDULE Delta - FLAMMABLE GASES S-U - SPILLAGE SCHEDULE Uniform - GASES (FLAMMABLE, TOXIC OR CORROSIVE) None
IATA	
PCA Excepted quantities (IATA)	: E0
PCA Limited quantities (IATA) PCA limited quantity max net quantity (IATA)	: Y203
PCA packing instructions (IATA)	: 30kgG : 203
PCA max net quantity (IATA)	: 75kg
CAO packing instructions (IATA)	: 203
CAO max net quantity (IATA)	: 150kg
Special provision (IATA)	: A145, A167, A802
ERG code (IATA)	: 10L

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

Commercial status of components according to the United States Environmental Protection Agency's Toxic Substances Control Act (TSCA):

Name	CAS-No.	Listing	Commercial status	Flags
methyl acetate	79-20-9	Present	Active	
Xylene	1330-20-7	Present	Active	
Naphtha (petroleum), hydrotreated heavy, Low boiling point hydrogen treated naphtha	64742-48-9	Present	Active	
ethylbenzene	100-41-4	Present	Active	
propan-2-ol	67-63-0	Present	Active	

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Name	CAS-No.	Listing	Commercial status	Flags
reaction mass of ethylbenzene, m-xylene and p- xylene		Present	Active	
2-butoxyethyl acetate, butylglycol acetate	112-07-2	Present	Active	Т
carbon black	1333-86-4	Present	Active	XU

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.

Xylene	CAS-No. 1330-20-7	< 5%
ethylbenzene	CAS-No. 100-41-4	< 5%
propan-2-ol	CAS-No. 67-63-0	< 5%

Xylene (1330-20-7)	
Listed on EPA Hazardous Air Pollutant (HAPS)	
CERCLA RQ	100 lb

ethylbenzene (100-41-4)		
Listed on EPA Hazardous Air Pollutant (HAPS)		
CERCLA RQ 1000 lb		

15.2. International regulations

CANADA

methyl acetate (79-20-9)

Listed on the Canadian DSL (Domestic Substances List)

Xylene (1330-20-7)

Listed on the Canadian DSL (Domestic Substances List)

Naphtha (petroleum), hydrotreated heavy, Low boiling point hydrogen treated naphtha (64742-48-9)

Listed on the Canadian DSL (Domestic Substances List)

ethylbenzene (100-41-4)

Listed on the Canadian DSL (Domestic Substances List)

propan-2-ol (67-63-0)

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)

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2-butoxyethyl acetate, butylglycol acetate (112-07-2)	
Listed on the Canadian DSL (Domestic Substances List)	
carbon black (1333-86-4)	
Listed on the Canadian DSL (Domestic Substances List)	

EU-Regulations

No additional information available

National regulations

ethylbenzene (100-41-4)

Listed on IARC (International Agency for Research on Cancer)

carbon black (1333-86-4)

Listed on IARC (International Agency for Research on Cancer) Listed on INSQ (Mexican National Inventory of Chemical Substances)

15.3. US State regulations

This product can expose you to ethylbenzene, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Component	State or local regulations
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
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
propan-2-ol(67-63-0)	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
carbon black(1333-86-4)	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 Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information

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NFPA health hazard NFPA fire hazard	 : 4 - Materials that, under emergency conditions, can be lethal. : 2 - Materials that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur. 	2
NFPA reactivity	: 3 - Materials that in themselves are capable of detonation or explosive decomposition or explosive reaction but that require a strong initiating source or must be heated under confinement before initiation.	4 3

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