

Safety Data Sheet

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

Date of issue: 05/17/2016 Revision date: 05/17/2016 Supersedes: 09/11/2014

DURATEC COATING VOC

904-061

SUNSHIELD CLEAR POLYESTER TOPCOAT

The Composites Fabricators Association in association with the EPA conducted a study of styrene emissions from open mold composite manufacturing. Styrene monomer is a volatile liquid that will react to form a non-volatile copolymer with unsaturated polyester resins. The value to determine is thus the amount of material lost prior to the completion of the reaction. The data gathered in this study is the actual measurement of emissions based on the percent styrene in the coating and the application method chosen. It was shown that the non-atomizing applications (such as brushing or roll coating) emit much less than the atomizing application (spraying). Using the data from this study, a Unified Emissions Factor (UEF) table was prepared.

Dura Technologies, Inc. considers this to be the best available science for calculating the emissions of coatings containing styrene monomer. We will therefore report three distinct VOC numbers. The VOC reported in section III of the MSDS is based on 100% evaporation of the styrene. This attachment will report the VOC calculated using the UEF factors for atomized application and non-atomized application.

ATOMIZED APPLICATION

COATING VOC: 2.02 LB/GAL (242.6 GR/LITER)
MATERIAL VOC: 2.02 LB/GAL (242.6 GR/LITER)

NON-ATOMIZED APPLICATION

COATING VOC: 1.6 LB/GAL (191.7 GR/LITER)
MATERIAL VOC: 1.6 LB/GAL (191.7 GR/LITER)

For some applications, this product may not be compliant if applied using atomizing techniques. Please consult the AQMD rule that applies to you operation and determine which application method will comply.

05/17/2016 EN (English US) Page 1

Safety Data Sheet

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

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

1.1. Product identifier

Product form : Mixture

Trade name : SUNSHIELD CLEAR POLYESTER TOPCOAT

CAS No : mixture
Product code : 904-061
Formula : na

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

Use of the substance/mixture : COATING

1.3. Details of the supplier of the safety data sheet

Dura Technologies, Inc. 2720 South Willow Avenue #A Bloomington, CA 92316

909.877.8477

ChemTrec US: 800.424.9300 ChemTrec Int: +1 70 3527 3887

1.4. Emergency telephone number

Emergency number : ChemTrec US: 800.424.9300 Int: +1 70 3527 3887

CHEMTREC: 1-800-424-9300

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification

Flam. Liq. 2 H225 Skin Irrit. 2 H315 Eye Irrit. 2A H319 Skin Sens. 1 H317 Carc. 2 H361 Repr. 2 H361 STOT SE 3 H335 STOT RE 1 H372

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US)







SHS02

GHS07

GHS08

Signal word (GHS-US) : Danger

Hazard statements (GHS-US) : H225 - Highly flammable liquid and vapor

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction H319 - Causes serious eye irritation H335 - May cause respiratory irritation H351 - Suspected of causing cancer

H361 - Suspected of damaging fertility or the unborn child

H372 - Causes damage to organs through prolonged or repeated exposure

Precautionary statements (GHS-US) : P201 - Obtain special instructions before use

P202 - Do not handle until all safety precautions have been read and understood P210 - Keep away from heat, hot surfaces, open flames, sparks. - No smoking

P233 - Keep container tightly closed

P240 - Ground/bond container and receiving equipment

P241 - Use explosion-proof electrical, lighting, ventilating equipment

P242 - Use only non-sparking tools

P243 - Take precautionary measures against static discharge
P260 - Do not breathe dust, fume, mist, spray, vapors
P264 - Wash exposed area. thoroughly after handling
P270 - Do not eat, drink or smoke when using this product

05/17/2016 EN (English US) 2/14

Safety Data Sheet

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

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

P272 - Contaminated work clothing should not be allowed out of the workplace

P280 - Wear eye protection, protective clothing, protective gloves

P302+P352 - IF ON SKIN: Wash with plenty of soap and water

P303+P361+P353 - IF ON SKIN (or hair): Řemove/Take off immediately all contaminated clothing. Rinse skin with water/shower

P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing P308+P313 - IF exposed or concerned: Get medical advice/attention

P312 - Call a POISON CENTER or doctor/physician if you feel unwell

P314 - Get medical advice and attention if you feel unwell

P321 - Specific treatment (see none listed. on this label)

P332+P313 - If skin irritation occurs: Get medical advice/attention

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention

P337+P313 - If eye irritation persists: Get medical advice/attention

P362 - Take off contaminated clothing and wash it before reuse

P362+P364 - Take off contaminated clothing and wash it before reuse

P370+P378 - In case of fire: Use carbon dioxide (CO2), dry chemical powder, foam to extinguish

P403+P233 - Store in a well-ventilated place. Keep container tightly closed

P403+P235 - Store in a well-ventilated place. Keep cool

P405 - Store locked up

P501 - Dispose of contents/container to in accordance with local, state, and federal regulations.

2.3. Other hazards

No additional information available

Unknown acute toxicity (GHS-US)

No data available

SECTION 3: Composition/Information on ingredients

Substance

Not applicable

Full text of H-phrases: see section 16

Mixture 3.2.

Name	Product identifier	%	GHS-US classification
Proprietary Resin	(CAS No) TRADE SECRET	<= 60	Not classified
styrene, inhibited	(CAS No) 100-42-5	<= 30	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation:vapour), H332 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Carc. 2, H351 Repr. 2, H361 STOT SE 3, H335 STOT RE 1, H372
methyl ethyl ketone	(CAS No) 78-93-3	<= 6	Flam. Liq. 2, H225 STOT SE 3, H336
1,6-hexanediol diacrylate	(CAS No) 13048-33-4	<= 5	Skin Irrit. 2, H315 Skin Sens. 1, H317
2-propanol	(CAS No) 67-63-0	<= 1	Flam. Liq. 2, H225 STOT SE 3, H336
n-butyl acetate	(CAS No) 123-86-4	<= 1	Flam. Liq. 3, H226 STOT SE 3, H336
isobutyl acetate	(CAS No) 110-19-0	<= 1	Flam. Liq. 2, H225
Solvent Naptha Petroleum Aliphatic	(CAS No) Proprietary	<= 1	Not classified
cobalt(II) 2-ethylhexanoate	(CAS No) 136-52-7	<= 0.5	Carc. 2, H351

SECTION 4: First aid measures

Description of first aid measures

First-aid measures general

: Never give anything by mouth to an unconscious person. Suspected of causing cancer. IF exposed or concerned: Get medical advice/attention.

First-aid measures after inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

05/17/2016 EN (English US) 3/14

Safety Data Sheet

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

First-aid measures after skin contact

: Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: wash throughly for five minutes. seek medical attention. Get medical advice/attention. Specific

treatment (see seek medical attention. on this label). If skin irritation or rash occurs:

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: SEEK IMMEDIATE MEDICAL ATTENTION. Get

medical advice/attention.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

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

Symptoms/injuries : May cause genetic defects (avoid skin contact and inhalation.). May cause cancer (avoid skin

contact and inhalation.). Suspected of damaging fertility or the unborn child. Causes damage to

organs through prolonged or repeated exposure.

Symptoms/injuries after inhalation : Danger of serious damage to health by prolonged exposure through inhalation. Harmful if

inhaled. May cause an allergic skin reaction. May cause respiratory irritation.

Symptoms/injuries after skin contact : Causes skin irritation.

Symptoms/injuries after eye contact : Causes serious eye irritation.

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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

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

5.2. Special hazards arising from the substance or mixture

Fire hazard : Highly flammable liquid and vapor.

Explosion hazard : May form flammable/explosive vapor-air mixture.

Reactivity : No reactivity hazard other than the effects described in sub-sections below.

5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Prevent fire-fighting water from entering environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Remove ignition sources. Use special care to avoid static electric charges. No open flames. No

smoking.

6.1.1. For non-emergency personnel

Protective equipment : Gloves. Protective goggles. Protective clothing.

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment : Dam up the liquid spill. Contain released substance, pump into suitable containers.

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect

spillage. Store away from other materials.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Handle empty containers with care because residual vapors are flammable.

05/17/2016 EN (English US) 4/14

Safety Data Sheet

Hygiene measures

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

Precautions for safe handling : Wash hands and other e

: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. No open flames. No smoking. Use only non-sparking tools. Use only outdoors or in a wellventilated area. Avoid breathing DUST, FUMES, MIST, OR VAPORS. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Eliminate all ignition sources if safe to do so. Do not breathe dust/fume/gas/mist/vapors/spray.

 Wash HANDS thoroughly after handling. 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.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Proper grounding procedures to avoid static electricity should be followed. Ground/bond

container and receiving equipment. Use explosion-proof electrical, ventilating and lighting

equipment. equipment.

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : HEAT SPARKS

OR OPEN FLAMES. Keep in fireproof place. Keep container tightly closed.

Incompatible products : Strong bases. Strong acids.

Incompatible materials : Sources of ignition. Direct sunlight. Heat sources.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

styrene, inhibited (100-42-5)		
USA ACGIH	ACGIH TWA (ppm)	20 ppm
USA ACGIH	ACGIH STEL (ppm)	20 ppm

methyl ethyl ketone (78-93-3		
USA ACGIH	ACGIH TWA (ppm)	200 ppm
USA ACGIH	ACGIH STEL (ppm)	200 ppm

n-butyl acetate (123-86-4)		
USA ACGIH	ACGIH TWA (ppm)	150 ppm
USA ACGIH	ACGIH STEL (ppm)	200 ppm

2-propanol (67-63-0)		
USA ACGIH	ACGIH TWA (ppm)	200 ppm
USA ACGIH	ACGIH STEL (ppm)	200 ppm

isobutyl acetate (110-19-0)		
USA ACGIH	ACGIH TWA (ppm)	150 ppm
USA ACGIH	ACGIH STEL (ppm)	150 ppm

8.2. Exposure controls

Appropriate engineering controls : Ensure exposure is below occupational exposure limits (where available).

Personal protective equipment : Avoid all unnecessary exposure.

Hand protection : Wear protective gloves.

Eye protection : Chemical goggles or safety glasses.
Skin and body protection : Wear suitable protective clothing.

Respiratory protection : Wear appropriate mask.

Other information : Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
Color : clear.
Odor : characteristic.

05/17/2016 EN (English US) 5/14

Safety Data Sheet

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

Odor threshold : No data available рН : No data available Relative evaporation rate (butyl acetate=1) : No data available Melting point : No data available Freezing point : No data available : >= 79.4 °C Boiling point Flash point : >= -11.1 °C Auto-ignition temperature : No data available Decomposition temperature : No data available No data available Flammability (solid, gas) No data available Vapor pressure Relative vapor density at 20 °C : No data available

Relative density : <=
Specific gravity / density : 1.07

Solubility : No data available Log Pow : No data available Log Kow : No data available Viscosity, kinematic No data available : No data available Viscosity, dynamic Explosive properties : No data available Oxidizing properties No data available Explosive limits : No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No reactivity hazard other than the effects described in sub-sections below.

10.2. Chemical stability

Polymerization can result in formation of solid deposits, even in vapour space. Not established. Highly flammable liquid and vapor. May form flammable/explosive vapor-air mixture.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Open flame.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide. May release flammable gases.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

SUNSHIELD CLEAR (\f)mixture	
ATE CLP (vapors)	11.000 mg/l/4h
styrene, inhibited (100-42-5)	
LD50 oral rat	5000 mg/kg (Rat; Literature study; >6000 mg/kg bodyweight; Rat; Weight of evidence)
LD50 dermal rat	2820 mg/kg (Rat; Literature study; OECD 402: Acute Dermal Toxicity; >2000 mg/kg bodyweight; Rat; Experimental value)
LD50 dermal rabbit	5010 mg/kg (Rabbit; Literature study)
LC50 inhalation rat (mg/l)	12 mg/l/4h (Rat; Literature study)

05/17/2016 EN (English US) 6/14

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

according to Federal Register / Vol. 77, No. 58 / Mo	nuay, maion 20, 2012 / Nules and Negulations
styrene, inhibited (100-42-5)	
LC50 inhalation rat (ppm)	2770 ppm/4h (Rat; Literature study)
ATE CLP (oral)	5000.000 mg/kg body weight
ATE CLP (dermal)	2820.000 mg/kg body weight
ATE CLP (gases)	2770.000 ppmV/4h
ATE CLP (vapors)	12.000 mg/l/4h
ATE CLP (dust, mist)	12.000 mg/l/4h
cobalt(II) 2-ethylhexanoate (136-52-7)	
LD50 oral rat	3129 mg/kg body weight (Rat; OECD 425: Acute Oral Toxicity: Up-and-Down Procedure;
	Experimental value)
LD50 dermal rat	> 2000 mg/kg body weight (Rat; Weight of evidence; OECD 402: Acute Dermal Toxicity)
ATE CLP (oral)	3129.000 mg/kg body weight
methyl ethyl ketone (78-93-3)	
LD50 oral rat	2737 mg/kg (Rat; Equivalent or similar to OECD 423; Read-across; 2054 mg/kg; Rat; Equivalent or similar to OECD 423; Read-across; 2328 mg/kg; Rat)
LD50 dermal rabbit	6480 mg/kg (Rabbit; Experimental value; Equivalent or similar to OECD 402; >10; Rabbit)
LC50 inhalation rat (mg/l)	34 mg/l/4h (Rat; Literature study)
LC50 inhalation rat (ppm)	11300 ppm/4h (Rat; Literature study)
ATE CLP (oral)	2737.000 mg/kg body weight
ATE CLP (dermal)	6480.000 mg/kg body weight
ATE CLP (gases)	11300.000 ppmV/4h
ATE CLP (vapors)	34.000 mg/l/4h
ATE CLP (dust, mist)	34.000 mg/l/4h
, ,	34.000 mg//4m
n-butyl acetate (123-86-4)	
LD50 oral rat	10770 mg/kg (Rat)
LD50 dermal rabbit	> 17600 mg/kg (Rabbit)
ATE CLP (oral)	10770.000 mg/kg body weight
2-propanol (67-63-0)	
	5045 mg/kg (Rat; OECD 401: Acute Oral Toxicity; Experimental value; 5840 mg/kg bodyweight; Rat)
2-propanol (67-63-0)	
2-propanol (67-63-0) LD50 oral rat	bodyweight; Rat)
2-propanol (67-63-0) LD50 oral rat LD50 dermal rabbit	bodyweight; Rat) 12870 mg/kg (Rabbit; Experimental value; Equivalent or similar to OECD 402; 16.4; Rabbit)
2-propanol (67-63-0) LD50 oral rat LD50 dermal rabbit LC50 inhalation rat (mg/l)	bodyweight; Rat) 12870 mg/kg (Rabbit; Experimental value; Equivalent or similar to OECD 402; 16.4; Rabbit) 73 mg/l/4h (Rat)
2-propanol (67-63-0) LD50 oral rat LD50 dermal rabbit LC50 inhalation rat (mg/l) ATE CLP (oral)	bodyweight; Rat) 12870 mg/kg (Rabbit; Experimental value; Equivalent or similar to OECD 402; 16.4; Rabbit) 73 mg/l/4h (Rat) 5045.000 mg/kg body weight
2-propanol (67-63-0) LD50 oral rat LD50 dermal rabbit LC50 inhalation rat (mg/l) ATE CLP (oral) ATE CLP (dermal)	bodyweight; Rat) 12870 mg/kg (Rabbit; Experimental value; Equivalent or similar to OECD 402; 16.4; Rabbit) 73 mg/l/4h (Rat) 5045.000 mg/kg body weight 12870.000 mg/kg body weight
2-propanol (67-63-0) LD50 oral rat LD50 dermal rabbit LC50 inhalation rat (mg/l) ATE CLP (oral) ATE CLP (dermal) ATE CLP (vapors) ATE CLP (dust, mist)	bodyweight; Rat) 12870 mg/kg (Rabbit; Experimental value; Equivalent or similar to OECD 402; 16.4; Rabbit) 73 mg/l/4h (Rat) 5045.000 mg/kg body weight 12870.000 mg/kg body weight 73.000 mg/l/4h
2-propanol (67-63-0) LD50 oral rat LD50 dermal rabbit LC50 inhalation rat (mg/l) ATE CLP (oral) ATE CLP (dermal) ATE CLP (vapors) ATE CLP (dust, mist) isobutyl acetate (110-19-0)	bodyweight; Rat) 12870 mg/kg (Rabbit; Experimental value; Equivalent or similar to OECD 402; 16.4; Rabbit) 73 mg/l/4h (Rat) 5045.000 mg/kg body weight 12870.000 mg/kg body weight 73.000 mg/l/4h 73.000 mg/l/4h
2-propanol (67-63-0) LD50 oral rat LD50 dermal rabbit LC50 inhalation rat (mg/l) ATE CLP (oral) ATE CLP (dermal) ATE CLP (vapors) ATE CLP (dust, mist) isobutyl acetate (110-19-0) LD50 oral rat	bodyweight; Rat) 12870 mg/kg (Rabbit; Experimental value; Equivalent or similar to OECD 402; 16.4; Rabbit) 73 mg/l/4h (Rat) 5045.000 mg/kg body weight 12870.000 mg/kg body weight 73.000 mg/l/4h 73.000 mg/l/4h 13400 mg/kg (Rat)
2-propanol (67-63-0) LD50 oral rat LD50 dermal rabbit LC50 inhalation rat (mg/l) ATE CLP (oral) ATE CLP (dermal) ATE CLP (vapors) ATE CLP (dust, mist) isobutyl acetate (110-19-0) LD50 oral rat LD50 dermal rabbit	bodyweight; Rat) 12870 mg/kg (Rabbit; Experimental value; Equivalent or similar to OECD 402; 16.4; Rabbit) 73 mg/l/4h (Rat) 5045.000 mg/kg body weight 12870.000 mg/kg body weight 73.000 mg/l/4h 73.000 mg/l/4h 13400 mg/kg (Rat) > 5000 mg/kg (Rabbit)
2-propanol (67-63-0) LD50 oral rat LD50 dermal rabbit LC50 inhalation rat (mg/l) ATE CLP (oral) ATE CLP (dermal) ATE CLP (dust, mist) isobutyl acetate (110-19-0) LD50 oral rat LD50 dermal rabbit ATE CLP (oral)	bodyweight; Rat) 12870 mg/kg (Rabbit; Experimental value; Equivalent or similar to OECD 402; 16.4; Rabbit) 73 mg/l/4h (Rat) 5045.000 mg/kg body weight 12870.000 mg/kg body weight 73.000 mg/l/4h 73.000 mg/l/4h 13400 mg/kg (Rat)
2-propanol (67-63-0) LD50 oral rat LD50 dermal rabbit LC50 inhalation rat (mg/l) ATE CLP (oral) ATE CLP (dermal) ATE CLP (vapors) ATE CLP (dust, mist) isobutyl acetate (110-19-0) LD50 oral rat LD50 dermal rabbit ATE CLP (oral) 1,6-hexanediol diacrylate (13048-33-4)	bodyweight; Rat) 12870 mg/kg (Rabbit; Experimental value; Equivalent or similar to OECD 402; 16.4; Rabbit) 73 mg/l/4h (Rat) 5045.000 mg/kg body weight 12870.000 mg/kg body weight 73.000 mg/l/4h 73.000 mg/l/4h 13400 mg/kg (Rat) > 5000 mg/kg (Rabbit) 13400.000 mg/kg body weight
2-propanol (67-63-0) LD50 oral rat LD50 dermal rabbit LC50 inhalation rat (mg/l) ATE CLP (oral) ATE CLP (dermal) ATE CLP (vapors) ATE CLP (dust, mist) isobutyl acetate (110-19-0) LD50 oral rat LD50 dermal rabbit ATE CLP (oral) 1,6-hexanediol diacrylate (13048-33-4) LD50 oral rat	bodyweight; Rat) 12870 mg/kg (Rabbit; Experimental value; Equivalent or similar to OECD 402; 16.4; Rabbit) 73 mg/l/4h (Rat) 5045.000 mg/kg body weight 12870.000 mg/kg body weight 73.000 mg/l/4h 73.000 mg/l/4h 13400 mg/kg (Rat) > 5000 mg/kg (Rabbit) 13400.000 mg/kg (Rat) > 5000 mg/kg (Rat)
2-propanol (67-63-0) LD50 oral rat LD50 dermal rabbit LC50 inhalation rat (mg/l) ATE CLP (oral) ATE CLP (dermal) ATE CLP (vapors) ATE CLP (dust, mist) isobutyl acetate (110-19-0) LD50 oral rat LD50 dermal rabbit ATE CLP (oral) 1,6-hexanediol diacrylate (13048-33-4) LD50 dermal rabbit	bodyweight; Rat) 12870 mg/kg (Rabbit; Experimental value; Equivalent or similar to OECD 402; 16.4; Rabbit) 73 mg/l/4h (Rat) 5045.000 mg/kg body weight 12870.000 mg/kg body weight 73.000 mg/l/4h 73.000 mg/l/4h 13400 mg/kg (Rat) > 5000 mg/kg (Rabbit) 13400.000 mg/kg (Rat) > 5000 mg/kg (Rat) 3600 mg/kg (Rabbit)
2-propanol (67-63-0) LD50 oral rat LD50 dermal rabbit LC50 inhalation rat (mg/l) ATE CLP (oral) ATE CLP (dermal) ATE CLP (vapors) ATE CLP (dust, mist) isobutyl acetate (110-19-0) LD50 oral rat LD50 dermal rabbit ATE CLP (oral) 1,6-hexanediol diacrylate (13048-33-4) LD50 dermal rabbit ATE CLP (dermal)	bodyweight; Rat) 12870 mg/kg (Rabbit; Experimental value; Equivalent or similar to OECD 402; 16.4; Rabbit) 73 mg/l/4h (Rat) 5045.000 mg/kg body weight 12870.000 mg/kg body weight 73.000 mg/l/4h 73.000 mg/l/4h 13400 mg/kg (Rat) > 5000 mg/kg (Rabbit) 13400.000 mg/kg body weight > 5000 mg/kg (Rat) > 5000 mg/kg (Rat) 3600 mg/kg (Rabbit) 3600.000 mg/kg body weight
2-propanol (67-63-0) LD50 oral rat LD50 dermal rabbit LC50 inhalation rat (mg/l) ATE CLP (oral) ATE CLP (dermal) ATE CLP (dermal) ATE CLP (dust, mist) isobutyl acetate (110-19-0) LD50 oral rat LD50 dermal rabbit ATE CLP (oral) 1,6-hexanediol diacrylate (13048-33-4) LD50 dermal rabbit ATE CLP (dermal) Skin corrosion/irritation	bodyweight; Rat) 12870 mg/kg (Rabbit; Experimental value; Equivalent or similar to OECD 402; 16.4; Rabbit) 73 mg/l/4h (Rat) 5045.000 mg/kg body weight 12870.000 mg/kg body weight 73.000 mg/l/4h 73.000 mg/l/4h 13400 mg/kg (Rat) > 5000 mg/kg (Rabbit) 13400.000 mg/kg body weight > 5000 mg/kg (Rat) 3600 mg/kg (Rabbit) 3600 mg/kg (Rabbit) 3600.000 mg/kg body weight : Causes skin irritation.
2-propanol (67-63-0) LD50 oral rat LD50 dermal rabbit LC50 inhalation rat (mg/l) ATE CLP (oral) ATE CLP (dermal) ATE CLP (dust, mist) isobutyl acetate (110-19-0) LD50 oral rat LD50 dermal rabbit ATE CLP (oral) 1,6-hexanediol diacrylate (13048-33-4) LD50 dermal rabbit ATE CLP (dermal) Skin corrosion/irritation Serious eye damage/irritation	bodyweight; Rat) 12870 mg/kg (Rabbit; Experimental value; Equivalent or similar to OECD 402; 16.4; Rabbit) 73 mg/l/4h (Rat) 5045.000 mg/kg body weight 12870.000 mg/kg body weight 73.000 mg/l/4h 73.000 mg/l/4h 13400 mg/kg (Rat) > 5000 mg/kg (Rabbit) 13400.000 mg/kg body weight > 5000 mg/kg (Rat) > 5000 mg/kg (Rat) 3600 mg/kg (Rabbit) 3600.000 mg/kg body weight : Causes skin irritation. : Causes serious eye irritation.
2-propanol (67-63-0) LD50 oral rat LD50 dermal rabbit LC50 inhalation rat (mg/l) ATE CLP (oral) ATE CLP (dermal) ATE CLP (deypors) ATE CLP (dust, mist) isobutyl acetate (110-19-0) LD50 oral rat LD50 dermal rabbit ATE CLP (oral) 1,6-hexanediol diacrylate (13048-33-4) LD50 oral rat LD50 dermal rabbit ATE CLP (dermal) Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization	bodyweight; Rat) 12870 mg/kg (Rabbit; Experimental value; Equivalent or similar to OECD 402; 16.4; Rabbit) 73 mg/l/4h (Rat) 5045.000 mg/kg body weight 12870.000 mg/kg body weight 73.000 mg/l/4h 73.000 mg/l/4h 13400 mg/kg (Rat) > 5000 mg/kg (Rabbit) 13400.000 mg/kg body weight > 5000 mg/kg (Rat) > 5000 mg/kg (Rat) Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction.
2-propanol (67-63-0) LD50 oral rat LD50 dermal rabbit LC50 inhalation rat (mg/l) ATE CLP (oral) ATE CLP (dermal) ATE CLP (vapors) ATE CLP (dust, mist) isobutyl acetate (110-19-0) LD50 oral rat LD50 dermal rabbit ATE CLP (oral) 1,6-hexanediol diacrylate (13048-33-4) LD50 oral rat LD50 dermal rabbit ATE CLP (dermal) Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity	bodyweight; Rat) 12870 mg/kg (Rabbit; Experimental value; Equivalent or similar to OECD 402; 16.4; Rabbit) 73 mg/l/4h (Rat) 5045.000 mg/kg body weight 12870.000 mg/kg body weight 73.000 mg/l/4h 73.000 mg/l/4h 13400 mg/kg (Rat) > 5000 mg/kg (Rabbit) 13400.000 mg/kg body weight > 5000 mg/kg (Rabbit) 3600.000 mg/kg (Rabbit) 3600.000 mg/kg body weight : Causes skin irritation. : Causes serious eye irritation. : May cause an allergic skin reaction. : Not classified
2-propanol (67-63-0) LD50 oral rat LD50 dermal rabbit LC50 inhalation rat (mg/l) ATE CLP (oral) ATE CLP (dermal) ATE CLP (deypors) ATE CLP (dust, mist) isobutyl acetate (110-19-0) LD50 oral rat LD50 dermal rabbit ATE CLP (oral) 1,6-hexanediol diacrylate (13048-33-4) LD50 oral rat LD50 dermal rabbit ATE CLP (dermal) Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization	bodyweight; Rat) 12870 mg/kg (Rabbit; Experimental value; Equivalent or similar to OECD 402; 16.4; Rabbit) 73 mg/l/4h (Rat) 5045.000 mg/kg body weight 12870.000 mg/kg body weight 73.000 mg/l/4h 73.000 mg/l/4h 13400 mg/kg (Rat) > 5000 mg/kg (Rabbit) 13400.000 mg/kg body weight > 5000 mg/kg (Rat) > 5000 mg/kg (Rat) Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction.
2-propanol (67-63-0) LD50 oral rat LD50 dermal rabbit LC50 inhalation rat (mg/l) ATE CLP (oral) ATE CLP (dermal) ATE CLP (vapors) ATE CLP (dust, mist) isobutyl acetate (110-19-0) LD50 oral rat LD50 dermal rabbit ATE CLP (oral) 1,6-hexanediol diacrylate (13048-33-4) LD50 oral rat LD50 dermal rabbit ATE CLP (dermal) Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity	bodyweight; Rat) 12870 mg/kg (Rabbit; Experimental value; Equivalent or similar to OECD 402; 16.4; Rabbit) 73 mg/l/4h (Rat) 5045.000 mg/kg body weight 12870.000 mg/kg body weight 73.000 mg/l/4h 73.000 mg/l/4h 13400 mg/kg (Rat) > 5000 mg/kg (Rabbit) 13400.000 mg/kg body weight > 5000 mg/kg (Rabbit) 3600.000 mg/kg (Rabbit) 3600.000 mg/kg body weight : Causes skin irritation. : Causes serious eye irritation. : May cause an allergic skin reaction. : Not classified
2-propanol (67-63-0) LD50 oral rat LD50 dermal rabbit LC50 inhalation rat (mg/l) ATE CLP (oral) ATE CLP (dermal) ATE CLP (deypors) ATE CLP (dust, mist) isobutyl acetate (110-19-0) LD50 oral rat LD50 dermal rabbit ATE CLP (oral) 1,6-hexanediol diacrylate (13048-33-4) LD50 oral rat LD50 dermal rabbit ATE CLP (dermal) Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity	bodyweight; Rat) 12870 mg/kg (Rabbit; Experimental value; Equivalent or similar to OECD 402; 16.4; Rabbit) 73 mg/l/4h (Rat) 5045.000 mg/kg body weight 12870.000 mg/kg body weight 73.000 mg/l/4h 73.000 mg/l/4h 13400 mg/kg (Rat) > 5000 mg/kg (Rabbit) 13400.000 mg/kg body weight > 5000 mg/kg (Rabbit) 3600.000 mg/kg (Rabbit) 3600.000 mg/kg body weight : Causes skin irritation. : Causes serious eye irritation. : May cause an allergic skin reaction. : Not classified
2-propanol (67-63-0) LD50 oral rat LD50 dermal rabbit LC50 inhalation rat (mg/l) ATE CLP (oral) ATE CLP (dermal) ATE CLP (deypors) ATE CLP (dust, mist) isobutyl acetate (110-19-0) LD50 oral rat LD50 dermal rabbit ATE CLP (oral) 1,6-hexanediol diacrylate (13048-33-4) LD50 oral rat LD50 dermal rabbit ATE CLP (dermal) Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity styrene, inhibited (100-42-5)	bodyweight; Rat) 12870 mg/kg (Rabbit; Experimental value; Equivalent or similar to OECD 402; 16.4; Rabbit) 73 mg/l/4h (Rat) 5045.000 mg/kg body weight 12870.000 mg/kg body weight 73.000 mg/l/4h 73.000 mg/l/4h 13400 mg/kg (Rat) > 5000 mg/kg (Rabbit) 13400.000 mg/kg body weight > 5000 mg/kg (Rat) > 5000 mg/kg (Rat) 3600 mg/kg (Rabbit) 3600.000 mg/kg body weight : Causes skin irritation. : Causes serious eye irritation. : May cause an allergic skin reaction. : Not classified : Suspected of causing cancer.
2-propanol (67-63-0) LD50 oral rat LD50 dermal rabbit LC50 inhalation rat (mg/l) ATE CLP (oral) ATE CLP (dermal) ATE CLP (dust, mist) isobutyl acetate (110-19-0) LD50 oral rat LD50 dermal rabbit ATE CLP (oral) 1,6-hexanediol diacrylate (13048-33-4) LD50 oral rat LD50 dermal rabbit ATE CLP (dermal) Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity styrene, inhibited (100-42-5) IARC group	bodyweight; Rat) 12870 mg/kg (Rabbit; Experimental value; Equivalent or similar to OECD 402; 16.4; Rabbit) 73 mg/l/4h (Rat) 5045.000 mg/kg body weight 12870.000 mg/kg body weight 73.000 mg/l/4h 73.000 mg/l/4h 13400 mg/kg (Rat) > 5000 mg/kg (Rabbit) 13400.000 mg/kg body weight > 5000 mg/kg (Rat) > 5000 mg/kg (Rat) 3600 mg/kg (Rabbit) 3600.000 mg/kg body weight : Causes skin irritation. : Causes serious eye irritation. : May cause an allergic skin reaction. : Not classified : Suspected of causing cancer.

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

2-propanol (67-63-0)	
IARC group	3 - Not classifiable
Reproductive toxicity	: Suspected of damaging fertility or the unborn child.
	Based on available data, the classification criteria are not met
Specific target organ toxicity (single exposure)	: May cause respiratory irritation.
Specific target organ toxicity (repeated	: Causes damage to organs through prolonged or repeated exposure.
exposure)	Based on available data, the classification criteria are not met Causes damage to organs through prolonged or repeated exposure
spiration hazard	: Not classified
	Based on available data, the classification criteria are not met
Potential Adverse human health effects and ymptoms	: Harmful if inhaled. Based on available data, the classification criteria are not met.
Symptoms/injuries after inhalation	: Danger of serious damage to health by prolonged exposure through inhalation. Harmful if inhaled. May cause an allergic skin reaction. May cause respiratory irritation.
Symptoms/injuries after skin contact	: Causes skin irritation.
Symptoms/injuries after eye contact	: Causes serious eye irritation.

SECTION 12: Ecological information

12.1. **Toxicity**

styrene, inhibited (100-42-5)	
LC50 fish 1	25 mg/l (96 h; Lepomis macrochirus; GLP)
LC50 other aquatic organisms 1	10 - 100 mg/l (96 h)
EC50 Daphnia 1	23 mg/l (48 h; Daphnia magna; Locomotor effect)
LC50 fish 2	32 mg/l (96 h; Pimephales promelas)
EC50 Daphnia 2	27 mg/l (24 h; Daphnia magna; GLP)
TLM fish 1	25.1 mg/l (96 h; Lepomis macrochirus; Soft water)
TLM fish 2	46.4 mg/l (96 h; Pimephales promelas; Soft water)
TLM other aquatic organisms 1	10 - 100,96 h
Threshold limit other aquatic organisms 1	10 - 100,96 h; Pseudomonas putida
Threshold limit other aquatic organisms 2	72 mg/l
Threshold limit algae 1	> 200 mg/l (192 h; Scenedesmus quadricauda; Inhibitory)
Threshold limit algae 2	67 mg/l (Microcystis aeruginosa; Inhibitory)
cobalt(II) 2-ethylhexanoate (136-52-7)	
LC50 fish 1	54.1 mg/l (96 h; Pimephales promelas)
EC50 Daphnia 1	2618 μg/l (48 h)
Threshold limit algae 1	24.1 μg/l (7 days)
Threshold limit algae 2	90.1 μg/l (7 days; Lemna minor; Growth rate)
methyl ethyl ketone (78-93-3)	
LC50 fish 1	1690 mg/l (96 h; Lepomis macrochirus; Lethal)
EC50 Daphnia 1	308 mg/l (48 h; Daphnia magna; Locomotor effect)
LC50 fish 2	2990 mg/l (96 h; Pimephales promelas)
TLM fish 1	5600 mg/l (96 h; Gambusia affinis)
TLM fish 2	1690 mg/l (96 h; Lepomis macrochirus)
TLM other aquatic organisms 1	> 1000 ppm (96 h)
Threshold limit algae 1	110 mg/l (168 h; Microcystis aeruginosa)
Threshold limit algae 2	4300 mg/l (192 h; Scenedesmus quadricauda)
n-butyl acetate (123-86-4)	
LC50 fish 1	18 mg/l (96 h; Pimephales promelas)
LC50 other aquatic organisms 1	10 - 100 mg/l (96 h)
EC50 Daphnia 1	10 - 100 mg/l (48 h; Daphnia magna; Static system)
EC50 other aquatic organisms 1	320 mg/l (96 h; Algae)
LC50 fish 2	62 mg/l (96 h; Brachydanio rerio)

05/17/2016 EN (English US) 8/14

EC50 Daphnia 2

n-butyl acetate (123-86-4)

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

TLM fish 1	10 - 100,96 h; Pisces
Threshold limit other aquatic organisms 1	10 - 100,96 h
Threshold limit algae 1	21 mg/l (168 h; Scenedesmus quadricauda; GROWTH RATE)
Threshold limit algae 2	280 mg/l (192 h; Microcystis aeruginosa; GROWTH RATE)
2-propanol (67-63-0)	
LC50 fish 1	4200 mg/l (96 h; Rasbora heteromorpha; Flow-through system)
EC50 Daphnia 1	> 10000 mg/l (48 h; Daphnia magna)
LC50 fish 2	9640 mg/l (96 h; Pimephales promelas; Lethal)
EC50 Daphnia 2	13299 mg/l (48 h; Daphnia magna)
Threshold limit algae 1	> 1000 mg/l (72 h; Scenedesmus subspicatus; Growth rate)
Threshold limit algae 2	1800 mg/l (72 h; Algae; Cell numbers)
isobutyl acetate (110-19-0)	400 or all (00 h. Languagia ang ang himus)
LC50 fish 1	100 mg/l (96 h; Lepomis macrochirus)
LC50 other aquatic organisms 1 EC50 Daphnia 1	10 - 100 mg/l (96 h) 44 mg/l (48 h; Daphnia magna; Nocivity test)
LC50 fish 2	101 mg/l (48 h; Leuciscus idus) 146 - 192 mg/l (Daphnia magna)
EC50 Daphnia 2 TLM fish 1	> 1000 ppm (96 h; Pisces)
Threshold limit other aquatic organisms 1	10 - 100,96 h; Protozoa
Threshold limit other aquatic organisms 1 Threshold limit other aquatic organisms 2	411 mg/l (72 h)
Threshold limit algae 1	205 mg/l (192 h; Microcystis aeruginosa)
Threshold limit algae 1 Threshold limit algae 2	80 mg/l (192 h; Nicrocystis aeruginosa)
	oo mgr (192 n, occincuesmus quaumeauda)
12.2. Persistence and degradability	
SUNSHIELD CLEAR (mixture)	
Persistence and degradability	Not established.
styrene, inhibited (100-42-5)	
Persistence and degradability	Readily biodegradable in water. Not readily biodegradable in water. Forming sediments in water. Non degradable in the soil. Adsorbs into the soil. Photodegradation in the air. Not
	established.
Chemical oxygen demand (COD)	established. 2.80 g O ² /g substance
Chemical oxygen demand (COD) ThOD	
	2.80 g O ² /g substance
ThOD BOD (% of ThOD)	2.80 g O ² /g substance 3.07 g O ² /g substance
ThOD BOD (% of ThOD) Proprietary Resin (TRADE SECRET)	2.80 g O ² /g substance 3.07 g O ² /g substance
ThOD BOD (% of ThOD) Proprietary Resin (TRADE SECRET) Persistence and degradability	2.80 g O²/g substance 3.07 g O²/g substance 0.42 % ThOD
ThOD BOD (% of ThOD) Proprietary Resin (TRADE SECRET) Persistence and degradability cobalt(II) 2-ethylhexanoate (136-52-7)	2.80 g O²/g substance 3.07 g O²/g substance 0.42 % ThOD Not established.
ThOD BOD (% of ThOD) Proprietary Resin (TRADE SECRET) Persistence and degradability cobalt(II) 2-ethylhexanoate (136-52-7) Persistence and degradability	2.80 g O²/g substance 3.07 g O²/g substance 0.42 % ThOD
ThOD BOD (% of ThOD) Proprietary Resin (TRADE SECRET) Persistence and degradability cobalt(II) 2-ethylhexanoate (136-52-7) Persistence and degradability methyl ethyl ketone (78-93-3)	2.80 g O²/g substance 3.07 g O²/g substance 0.42 % ThOD Not established. Biodegradability in water: no data available.
ThOD BOD (% of ThOD) Proprietary Resin (TRADE SECRET) Persistence and degradability cobalt(II) 2-ethylhexanoate (136-52-7) Persistence and degradability methyl ethyl ketone (78-93-3) Persistence and degradability	2.80 g O²/g substance 3.07 g O²/g substance 0.42 % ThOD Not established. Biodegradability in water: no data available. Readily biodegradable in water. Biodegradable in the soil. Biodegradable in the soil under anaerobic conditions. Not established.
ThOD BOD (% of ThOD) Proprietary Resin (TRADE SECRET) Persistence and degradability cobalt(II) 2-ethylhexanoate (136-52-7) Persistence and degradability methyl ethyl ketone (78-93-3) Persistence and degradability Biochemical oxygen demand (BOD)	2.80 g O²/g substance 3.07 g O²/g substance 0.42 % ThOD Not established. Biodegradability in water: no data available. Readily biodegradable in water. Biodegradable in the soil. Biodegradable in the soil under anaerobic conditions. Not established. 1.92 g O²/g substance
ThOD BOD (% of ThOD) Proprietary Resin (TRADE SECRET) Persistence and degradability cobalt(II) 2-ethylhexanoate (136-52-7) Persistence and degradability methyl ethyl ketone (78-93-3) Persistence and degradability Biochemical oxygen demand (BOD) Chemical oxygen demand (COD)	2.80 g O²/g substance 3.07 g O²/g substance 0.42 % ThOD Not established. Biodegradability in water: no data available. Readily biodegradable in water. Biodegradable in the soil. Biodegradable in the soil under anaerobic conditions. Not established. 1.92 g O²/g substance 2.31 g O²/g substance
ThOD BOD (% of ThOD) Proprietary Resin (TRADE SECRET) Persistence and degradability cobalt(II) 2-ethylhexanoate (136-52-7) Persistence and degradability methyl ethyl ketone (78-93-3) Persistence and degradability Biochemical oxygen demand (BOD) Chemical oxygen demand (COD) ThOD	2.80 g O²/g substance 3.07 g O²/g substance 0.42 % ThOD Not established. Biodegradability in water: no data available. Readily biodegradable in water. Biodegradable in the soil. Biodegradable in the soil under anaerobic conditions. Not established. 1.92 g O²/g substance 2.31 g O²/g substance 2.44 g O²/g substance
ThOD BOD (% of ThOD) Proprietary Resin (TRADE SECRET) Persistence and degradability cobalt(II) 2-ethylhexanoate (136-52-7) Persistence and degradability methyl ethyl ketone (78-93-3) Persistence and degradability Biochemical oxygen demand (BOD) Chemical oxygen demand (COD)	2.80 g O²/g substance 3.07 g O²/g substance 0.42 % ThOD Not established. Biodegradability in water: no data available. Readily biodegradable in water. Biodegradable in the soil. Biodegradable in the soil under anaerobic conditions. Not established. 1.92 g O²/g substance 2.31 g O²/g substance
ThOD BOD (% of ThOD) Proprietary Resin (TRADE SECRET) Persistence and degradability cobalt(II) 2-ethylhexanoate (136-52-7) Persistence and degradability methyl ethyl ketone (78-93-3) Persistence and degradability Biochemical oxygen demand (BOD) Chemical oxygen demand (COD) ThOD BOD (% of ThOD) n-butyl acetate (123-86-4)	2.80 g O²/g substance 3.07 g O²/g substance 0.42 % ThOD Not established. Biodegradability in water: no data available. Readily biodegradable in water. Biodegradable in the soil. Biodegradable in the soil under anaerobic conditions. Not established. 1.92 g O²/g substance 2.31 g O²/g substance 2.44 g O²/g substance > % ThOD (5 day(s)) > 0.5
ThOD BOD (% of ThOD) Proprietary Resin (TRADE SECRET) Persistence and degradability cobalt(II) 2-ethylhexanoate (136-52-7) Persistence and degradability methyl ethyl ketone (78-93-3) Persistence and degradability Biochemical oxygen demand (BOD) Chemical oxygen demand (COD) ThOD BOD (% of ThOD) n-butyl acetate (123-86-4) Persistence and degradability	2.80 g O²/g substance 3.07 g O²/g substance 0.42 % ThOD Not established. Biodegradability in water: no data available. Readily biodegradable in water. Biodegradable in the soil. Biodegradable in the soil under anaerobic conditions. Not established. 1.92 g O²/g substance 2.31 g O²/g substance 2.44 g O²/g substance 2.44 g O²/g substance > % ThOD (5 day(s)) > 0.5
ThOD BOD (% of ThOD) Proprietary Resin (TRADE SECRET) Persistence and degradability cobalt(II) 2-ethylhexanoate (136-52-7) Persistence and degradability methyl ethyl ketone (78-93-3) Persistence and degradability Biochemical oxygen demand (BOD) Chemical oxygen demand (COD) ThOD BOD (% of ThOD) n-butyl acetate (123-86-4) Persistence and degradability Biochemical oxygen demand (BOD)	2.80 g O²/g substance 3.07 g O²/g substance 0.42 % ThOD Not established. Biodegradability in water: no data available. Readily biodegradable in water. Biodegradable in the soil. Biodegradable in the soil under anaerobic conditions. Not established. 1.92 g O²/g substance 2.31 g O²/g substance 2.44 g O²/g substance 2.44 g O²/g substance > % ThOD (5 day(s)) > 0.5 Readily biodegradable in water. Biodegradable in the soil. Not established. 0.15 - 0.5 g O²/g substance
ThOD BOD (% of ThOD) Proprietary Resin (TRADE SECRET) Persistence and degradability cobalt(II) 2-ethylhexanoate (136-52-7) Persistence and degradability methyl ethyl ketone (78-93-3) Persistence and degradability Biochemical oxygen demand (BOD) Chemical oxygen demand (COD) ThOD BOD (% of ThOD) n-butyl acetate (123-86-4) Persistence and degradability Biochemical oxygen demand (BOD) Chemical oxygen demand (BOD) Chemical oxygen demand (BOD)	2.80 g O²/g substance 3.07 g O²/g substance 0.42 % ThOD Not established. Biodegradability in water: no data available. Readily biodegradable in water. Biodegradable in the soil. Biodegradable in the soil under anaerobic conditions. Not established. 1.92 g O²/g substance 2.31 g O²/g substance 2.44 g O²/g substance 2.44 g O²/g substance > % ThOD (5 day(s)) > 0.5 Readily biodegradable in water. Biodegradable in the soil. Not established. 0.15 - 0.5 g O²/g substance 2.32 g O²/g substance
ThOD BOD (% of ThOD) Proprietary Resin (TRADE SECRET) Persistence and degradability cobalt(II) 2-ethylhexanoate (136-52-7) Persistence and degradability methyl ethyl ketone (78-93-3) Persistence and degradability Biochemical oxygen demand (BOD) Chemical oxygen demand (COD) ThOD BOD (% of ThOD) n-butyl acetate (123-86-4) Persistence and degradability Biochemical oxygen demand (BOD)	2.80 g O²/g substance 3.07 g O²/g substance 0.42 % ThOD Not established. Biodegradability in water: no data available. Readily biodegradable in water. Biodegradable in the soil. Biodegradable in the soil under anaerobic conditions. Not established. 1.92 g O²/g substance 2.31 g O²/g substance 2.44 g O²/g substance 2.44 g O²/g substance > % ThOD (5 day(s)) > 0.5 Readily biodegradable in water. Biodegradable in the soil. Not established. 0.15 - 0.5 g O²/g substance

24 - 205 mg/l (24 h; Daphnia magna)

05/17/2016 EN (English US) 9/14

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

2-propanol (67-63-0)	
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Biodegradable in the soil under
	anaerobic conditions. No (test)data on mobility of the substance available. Not established.
Biochemical oxygen demand (BOD)	1.19 g O²/g substance
Chemical oxygen demand (COD) ThOD	2.23 g O²/g substance 2.40 g O²/g substance
BOD (% of ThOD)	0.49 % ThOD
Solvent Naptha Petroleum Aliphatic (Proprie	
Persistence and degradability	May cause long-term adverse effects in the environment.
isobutyl acetate (110-19-0)	
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Photolysis in the air. Not established.
ThOD	2.2 g O²/g substance
BOD (% of ThOD)	0.60 % ThOD
1,6-hexanediol diacrylate (13048-33-4)	
Persistence and degradability	Inherently biodegradable.
12.3. Bioaccumulative potential	
SUNSHIELD CLEAR (mixture)	
Bioaccumulative potential	Not established.
styrene, inhibited (100-42-5)	
BCF fish 1	35.5 (Carassius auratus)
BCF other aquatic organisms 1	74
Log Pow	2.96 (Experimental value; OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method; 25 °C)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500). Not established.
Proprietary Resin (TRADE SECRET)	
Bioaccumulative potential	Not established.
· · · · · · · · · · · · · · · · · · ·	Total Social Policy Control of the C
cobalt(II) 2-ethylhexanoate (136-52-7)	No bioaccumulation data available.
Bioaccumulative potential	No bloaccumulation data available.
methyl ethyl ketone (78-93-3)	
Log Pow	0.3 (Experimental value; OECD 117: Partition Coefficient (n-octanol/water), HPLC method; 40 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4). Not established.
n-butyl acetate (123-86-4)	
BCF fish 1	14 (Pisces)
Log Pow	1.79 - 2.06
D: 1 1: 1 1: 1: 1: 1: 1: 1: 1: 1: 1: 1: 1	Low potential for bioaccumulation (BCF < 500). Not established.
Bioaccumulative potential	
2-propanol (67-63-0)	
·	0.05 (Experimental value)
2-propanol (67-63-0)	0.05 (Experimental value) Low potential for bioaccumulation (Log Kow < 4). Not established.
2-propanol (67-63-0) Log Pow	Low potential for bioaccumulation (Log Kow < 4). Not established.
2-propanol (67-63-0) Log Pow Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4). Not established.
2-propanol (67-63-0) Log Pow Bioaccumulative potential Solvent Naptha Petroleum Aliphatic (Proprie	Low potential for bioaccumulation (Log Kow < 4). Not established. tary)
2-propanol (67-63-0) Log Pow Bioaccumulative potential Solvent Naptha Petroleum Aliphatic (Proprie Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4). Not established. tary)
2-propanol (67-63-0) Log Pow Bioaccumulative potential Solvent Naptha Petroleum Aliphatic (Proprie Bioaccumulative potential isobutyl acetate (110-19-0) BCF fish 1 Log Pow	Low potential for bioaccumulation (Log Kow < 4). Not established. tary) Not established. 4 - 9.7 (Pisces; Estimated value) 1.59 - 1.78
2-propanol (67-63-0) Log Pow Bioaccumulative potential Solvent Naptha Petroleum Aliphatic (Proprie Bioaccumulative potential isobutyl acetate (110-19-0) BCF fish 1	Low potential for bioaccumulation (Log Kow < 4). Not established. tary) Not established. 4 - 9.7 (Pisces; Estimated value)
2-propanol (67-63-0) Log Pow Bioaccumulative potential Solvent Naptha Petroleum Aliphatic (Proprie Bioaccumulative potential isobutyl acetate (110-19-0) BCF fish 1 Log Pow	Low potential for bioaccumulation (Log Kow < 4). Not established. tary) Not established. 4 - 9.7 (Pisces; Estimated value) 1.59 - 1.78
2-propanol (67-63-0) Log Pow Bioaccumulative potential Solvent Naptha Petroleum Aliphatic (Proprie Bioaccumulative potential isobutyl acetate (110-19-0) BCF fish 1 Log Pow Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4). Not established. tary) Not established. 4 - 9.7 (Pisces; Estimated value) 1.59 - 1.78

05/17/2016 EN (English US) 10/14

Safety Data Sheet

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

styrene, inhibited (100-42-5)			
Surface tension	0.032 N/m (19 °C)		
cobalt(II) 2-ethylhexanoate (136-52-7)			
Surface tension	0.064 N/m (20 °C; 1 g/l)		
methyl ethyl ketone (78-93-3)			
Surface tension	0.024 N/m (20 °C)		
Ecology - soil	Slightly harmful to plants.		
n-butyl acetate (123-86-4)			
Surface tension	0.0145 N/m (25 °C)		
2-propanol (67-63-0)			
Surface tension	0.021 N/m (25 °C)		
isobutyl acetate (110-19-0)			
Surface tension	0.024 N/m (20 °C)		

12.5. Other adverse effects

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Dispose of

contents/container to approved disposal site.

Additional information : Handle empty containers with care because residual vapors are flammable.

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

In accordance with DOT

UN-No.(DOT) : UN1263
Proper Shipping Name (DOT) : PAINT

Transport hazard class(es) (DOT) : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120

Hazard labels (DOT) : 3 - Flammable liquid



Packing group (DOT) : II - Medium Danger

Additional information

Other information : No supplementary information available.

ADR

Transport document description : UN 1263, 3, II, (D/E)

Packing group (ADR) : II

Class (ADR) : 3 - Flammable liquid

Hazard identification number (Kemler No.) : 30
Classification code (ADR) : F1

Hazard labels (ADR) : 3 - Flammable liquids



05/17/2016 EN (English US) 11/14

Safety Data Sheet

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

Orange plates : 20

30 1263

Tunnel restriction code : D/E LQ : 5I Excepted quantities (ADR) : E2

Transport by sea

UN-No. (IMDG) : 1263
Proper Shipping Name (IMDG) : paint

Class (IMDG) : 3 - Flammable liquids

Packing group (IMDG) : II - substances presenting medium danger

Air transport

UN-No. (IATA) : 1263
Proper Shipping Name (IATA) : paint

Class (IATA) : 3 - Flammable Liquids Packing group (IATA) : II - Medium Danger

SECTION 15: Regulatory information

15.1. US Federal regulations

styrene, inhibited (100-42-5)		
RQ (Reportable quantity, section 304 of EPA's List of Lists)	1000 lb	
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Reactive hazard Fire hazard Delayed (chronic) health hazard	

methyl ethyl ketone (78-93-3)	
RQ (Reportable quantity, section 304 of EPA's	5000 lb
List of Lists)	

n-butyl acetate (123-86-4)	
RQ (Reportable quantity, section 304 of EPA's List of Lists)	5000 lb
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard Fire hazard

15.2. International regulations

CANADA

No additional information available

EU-Regulations

No additional information available

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

Flam. Liq. 2 H225 Acute Tox. 4 (Inhalation:vapour) H332 Skin Irrit. 2 H315 Eye Irrit. 2 H319 Skin Sens. 1 H317 Carc. 2 H351

05/17/2016 EN (English US) 12/14

Safety Data Sheet

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

Repr. 2 H361 STOT RE 2 H373 Full text of H-phrases: see section 16

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

F; R11 Xn; R20 Xi; R36/38 R43

Full text of R-phrases: see section 16

15.2.2. National regulations

styrene, inhibited (100-42-5)

Listed on EPA's Hazardous Air Pollutants (HAPS)

15.3. US State regulations

styrene, inhibited (100-42-5)					
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	Non-significant risk level (NSRL)	
				ļ	

styrene, inhibited (100-42-5)

U.S. - Massachusetts - Right To Know List

U.S. - New Jersey - Right to Know Hazardous Substance List

U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

SECTION 16: Other information

Other information : None.

Full text of H-phrases: see section 16:

Acute Tox. 4 (Inhalation:vapour)	Acute toxicity (inhalation:vapour) Category 4	
Carc. 2	Carcinogenicity Category 2	
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A	
Flam. Liq. 2	Flammable liquids Category 2	
Flam. Liq. 3	Flammable liquids Category 3	
Repr. 2	Reproductive toxicity Category 2	
Skin Irrit. 2	Skin corrosion/irritation Category 2	
Skin Sens. 1	Skin sensitization Category 1	
STOT RE 1	Specific target organ toxicity (repeated exposure) Category 1	
STOT SE 3	Specific target organ toxicity (single exposure) Category 3	
STOT SE 3	Specific target organ toxicity (single exposure) Category 3	
H225	Highly flammable liquid and vapor	
H226	Flammable liquid and vapor	
H315	Causes skin irritation	
H317	May cause an allergic skin reaction	
H319	Causes serious eye irritation	
H332	Harmful if inhaled	
H335	May cause respiratory irritation	
H336	May cause drowsiness or dizziness	
H351	Suspected of causing cancer	
H361	Suspected of damaging fertility or the unborn child	
H372	Causes damage to organs through prolonged or repeated exposure	

05/17/2016 EN (English US) 13/14

Safety Data Sheet

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

NFPA health hazard : 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt

medical attention is given.

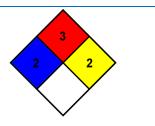
NFPA fire hazard : 3 - Liquids and solids that can be ignited under almost all

ambient conditions.

NFPA reactivity : 2 - Normally unstable and readily undergo violent

decomposition but do not detonate. Also: may react violently with water or may form potentially explosive

mixtures with water.



HMIS III Rating

Health : 2 Moderate Hazard - Temporary or minor injury may occur

: H

Flammability : 3 Serious Hazard
Physical : 1 Slight Hazard

SDS US (GHS HazCom 2012)

Personal Protection

To the best of our knowledge this SDS is accurate. The the extent allowed by law, this statement is made in lieu of an other warranties, expressed or implied including but not limited to any implied warranty of merchantability or fitness for a particular purpose and is in lieu of any other obligations or liability on the part of Dura Technoligies, Inc.

05/17/2016 EN (English US) 14/14