zycoat

Safety Data Sheet

acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: October 22, 2022

Revision: April 20, 2018

1 Identification

- Product identifier
- Trade name: <u>ZyClear</u>
- · Other means of identification: No other identifiers

· Recommended use and restriction on use

- Recommended use: Coating material
- Restrictions on use: No relevant information available.

Details of the supplier of the Safety Data Sheet

• Manufacturer/Supplier: ZyCoat, LLC 15032 W 117th Street Olathe, Kansas 66062 Telephone (General) 1-913-599-2600

• Emergency telephone number: Manufacturer (813) 248-0573 – Chem-Tel

2 Hazard(s) identification

· Classification of the substance or mixture

Flam. Liq. 2 H225 Highly flammable liquid and vapor.

Acute Tox. 4 H302 Harmful if swallowed.

Skin Irrit. 2 H315 Causes skin irritation.

Eye Dam. 1 H318 Causes serious eye damage.

Skin Sens. 1 H317 May cause an allergic skin reaction.

STOT SE 3 H336 May cause drowsiness or dizziness.

· Label elements

· GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms:



- · Signal word: Danger
- · Hazard statements:
- H225 Highly flammable liquid and vapor.
- H302 Harmful if swallowed.
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H317 May cause an allergic skin reaction.
- H336 May cause drowsiness or dizziness.
- · Precautionary statements:
- P210
- Keep away from heat/sparks/open flames/hot surfaces. No smoking.

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	(Cont'd. of page 1
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting/equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing mist, vapors, or spray.
P264	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing must not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection.
P301+P312	If swallowed: Call a poison center/doctor if you feel unwell.
P330	Rinse mouth.
P303+P361+P353	If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	FIN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, in present and easy to do. Continue rinsing.
P310	Immediately call a poison center/doctor.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P363	Wash contaminated clothing before reuse.
P370+P378	In case of fire: Use foam, powder, or carbon dioxide for extinction.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

• Other hazards There are no other hazards not otherwise classified that have been identified.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

· Components:			
108-21-4	isopropyl acetate	50-75%	
	Flam. Liq. 2, H225 Eye Irrit. 2A, H319; STOT SE 3, H336		
475645-84-2	Organic Polysilazane Compound	25-35%	
	line Skin Corr. 1B, H314; Eye Dam. 1, H318		
	🚯 Acute Tox. 4, H302		
64741-66-8	Naphtha (petroleum), light alkylate	<10%	
	🚸 Asp. Tox. 1, H304		
919-30-2	3-aminopropyltriethoxysilane	<2%	
	Skin Corr. 1B, H314		
	Skin Corr. 1B, H314 Acute Tox. 4, H302; Skin Sens. 1, H317		
Additional information:			

For the listed ingredient(s), the identity and/or exact percentage(s) are being withheld as a trade secret. For the wording of the listed Hazard Statements, refer to section 16.



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4 First-aid measures	
. Description of first aid measures	
 Description of first aid measures After inhalation: 	
Supply fresh air.	
Provide oxygen treatment if affected person has difficulty breathing.	
Seek medical help for symptoms or if unconscious.	
In case of unconsciousness place patient stably in side position for transportation.	
· After skin contact:	
Do not pull solidified product away from the skin.	
Wash with soap and water.	
If skin irritation or rash occurs: Get medical advice/attention.	
· After eye contact:	
Rinse opened eye for several minutes under running water. Then consult a doctor.	
Remove contact lenses if worn.	
· After swallowing:	
Rinse out mouth and then drink plenty of water.	
Do not induce vomiting; immediately call for medical help.	
A person vomiting while lying on their back should be turned onto their side.	
• Most important symptoms and effects, both acute and delayed:	
Breathing difficulty	
Dizziness	
Coughing	
Irritant to skin and mucous membranes.	
Eye damage. Allergic reactions	
· Danger:	
Harmful if swallowed.	
Danger of impaired breathing.	
· Indication of any immediate medical attention and special treatment needed:	
If necessary oxygen respiration treatment.	
5 Fire-fighting measures	
· Extinguishing media	
 Suitable extinguishing agents: 	
Alcohol resistant foam	
Carbon dioxide	
Gaseous extinguishing agents	
Fire-extinguishing powder	
Water fog / haze	
· For safety reasons unsuitable extinguishing agents:	
Water stream.	
Water spray	
Special hazards arising from the substance or mixture	
Highly flammable liquid and vapor.	
Formation of toxic gases is possible during heating or in case of fire.	
· Advice for firefighters	
· Protective equipment:	(Cont'd on page 1)
	(Cont'd. on page 4)



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Wear self-contained respiratory protective device. Wear fully protective suit.

· Additional information:

Eliminate all ignition sources if safe to do so.

Cool endangered containers with water fog.

6 Accidental release measures

[•] Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.

Keep away from ignition sources.

Wear protective equipment. Keep unprotected persons away.

Environmental precautions Avoid release to the environment.

Methods and material for containment and cleaning up

Allow to solidify. Pick up mechanically. Send for recovery or disposal in suitable receptacles. Absorb with non-combustible liquid-binding material (sand, diatomite, acid binders, universal binders).

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

Handling

Precautions for safe handling:

Use only in well ventilated areas.

Keep out of reach of children.

Open and handle receptacle with care.

Avoid contact with the eyes and skin.

Avoid breathing mist, vapors, or spray.

Information about protection against explosions and fires:

Highly flammable liquid and vapor.

Flammable gas-air mixtures may be formed in empty containers/receptacles.

Conditions for safe storage, including any incompatibilities

Requirements to be met by storerooms and receptacles:

Store in cool, dry conditions in well sealed receptacles.

Avoid storage near extreme heat, ignition sources or open flame.

Protect from humidity and water.

Information about storage in one common storage facility:

Store away from foodstuffs.

Store away from oxidizing agents.

Specific end use(s) No relevant information available.

8 Exposure controls/personal protection

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		(Cont'd. of page
Control paran	neters	
Components with limit values that require monitoring at the workplace:		
108-21-4 isopro	pyl acetate	
PEL (USA)	Long-term value: 950	mg/m³, 250 ppm
TLV (USA)	Short-term value: 626 Long-term value: 417	
EL (Canada)	Short-term value: 200 Long-term value: 100	
EV (Canada)	Short-term value: 200 Long-term value: 100	
LMPE (Mexico)	Short-term value: 200 Long-term value: 100	
The usual preca Keep away from Wash hands bef Do not inhale ga Avoid contact wi Engineering co Breathing equip Protection of ha Protection of ha Eye protection: Eye protection: Safety g Follow relevant n Body protection Limitation and No relevant infor	a foodstuffs, beverages fore breaks and at the e ases / fumes / aerosols. th the eyes and skin. ntrols: Provide adequa pment: Use suitable re- ands: ve gloves glasses national guidelines cond n: Protective work cloth d supervision of exp rmation available.	handling chemicals should be followed. and feed. end of work. ate ventilation. spiratory protective device in case of insufficient ventilation.
Physical and	I chemical propert	ties
-		
	n basic physical an	d chemical properties
· Appearance: Form:		Liquid
-		According to product specification
Color: • Odor:		According to product specification Characteristic

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· pH-value:	Not determined.
· Melting point/Melting range:	Not determined.
\cdot Boiling point/Boiling range:	102 °C (215.6 °F)
· Flash point:	<15 °C (<59 °F)
· Flammability (solid, gaseous):	Not applicable.
· Auto-ignition temperature:	Not determined.
· Decomposition temperature:	Not determined.
· Danger of explosion:	Product is not explosive. However, formation of explosive ai vapor mixtures are possible.
· Explosion limits	
Lower:	Not determined.
Upper:	Not determined.
 Oxidizing properties: 	Not determined.
· Vapor pressure:	Not determined.
· Density:	
Relative density:	0.89
Vapor density:	Not determined.
Evaporation rate:	Not determined.
\cdot Solubility in / Miscibility with	
Water:	Slowly reacts with water.
· Partition coefficient (n-octanol/wa	ater): Not determined.
· Viscosity	
Dynamic:	Not determined.
Kinematic:	Not determined.
 Other information 	No relevant information available.

10 Stability and reactivity

• **Reactivity:** No relevant information available.

Chemical stability: Stable under normal temperatures and pressures.

Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

Possibility of hazardous reactions

Highly flammable liquid and vapor.

Used empty containers may contain product gases which form explosive mixtures with air.

Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomized.

Reacts with oxidizing agents.

Reacts with peroxides.

Toxic fumes may be released if heated above the decomposition point.

Conditions to avoid Excessive heat.

Incompatible materials Oxidizers

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· Hazardous decomposition products

Under fire conditions only: Carbon monoxide and carbon dioxide Nitrogen oxides (NOx)

Informa	tion on toxicological effects	
Acute toxicity: Harmful if swallowed.		
LD/LC50 values that are relevant for classification:		
919-30-2	2 3-aminopropyltriethoxysilane	
Oral	LD50 1780 mg/kg (rat)	
Dermal	LD50 4000 mg/kg (rabbit)	
475645-	84-2 cyclosilazanes, di-Me, Me hydrogen, polymers with di-Me, Me hydrogen silazane reaction products with 3-(triethoxysilyl)-1-propanamine	
Oral	LD50 >300-2000 mg/kg (rat)	
Primary	irritant effect:	
	kin: Irritant to skin and mucous membranes.	
	ye: Strong irritant with the danger of severe eye injury.	
Sensitiz		
	3-aminopropyltriethoxysilane. May produce an allergic reaction.	
	ation possible through skin contact.	
•	ternational Agency for Research on Cancer):	
None of	the ingredients are listed.	
•	tional Toxicology Program):	
None of	the ingredients are listed.	
· OSHA-Ca (Occupational Safety & Health Administration):		
None of the ingredients are listed.		
	e route(s) of exposure:	
Ingestior	h.	
Inhalatio		
Eye cont		
Skin con		
	Il mutagenicity: Based on available data, the classification criteria are not met.	
	genicity: Based on available data, the classification criteria are not met.	
	ictive toxicity: Based on available data, the classification criteria are not met.	
	ngle exposure: May cause drowsiness or dizziness.	
	peated exposure: Based on available data, the classification criteria are not met.	
Achirati	on hazard: Based on available data, the classification criteria are not met.	

12 Ecological information

[•] Toxicity Aquatic toxicity

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Harmful to aquatic life with long lasting effects.

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475645-84-2 cyclosilazanes, di-Me, Me hydrogen, polymers with di-Me, Me hydrogen silazanes, reaction products with 3-(triethoxysilyl)-1-propanamine

LC50 57.1 mg/l (zebra fish)

Persistence and degradability No relevant information available.

Bioaccumulative potential: No relevant information available.

Mobility in soil: No relevant information available.

Additional ecological information

General notes:

Avoid release to the environment.

Due to available data on eliminability/decomposition and bioaccumulation potential prolonged term damage of the environment can not be excluded.

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

· Other adverse effects No relevant information available.

13 Disposal considerations

Waste treatment methods

Recommendation:

Can be disposed of with household garbage after solidification following consultation with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations. The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

Uncleaned packagings

• **Recommendation:** Disposal must be made according to official regulations.

UN-Number		
DOT, ADR, IMDG, IATA	UN1139	
UN proper shipping name		
DOT, IATA	Coating solution	
ADR, IMDG	COATING SOLUTION	
Transport hazard class(es)		
DOT		
Class	3 Flammable liquids	
Label	3	



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 •	Safety, health and environmental regulations/legislation specific for the substance mixture United States (USA) SARA
	Section 302 (extremely hazardous substances):
	None of the ingredients are listed.
	Section 355 (extremely hazardous substances):
	None of the ingredients are listed.
	Section 313 (Specific toxic chemical listings):
	None of the ingredients are listed.
	TSCA (Toxic Substances Control Act)
,	All ingredients are listed.
I	Proposition 65 (California)
	Chemicals known to cause cancer:
	None of the ingredients are listed.
	Chemicals known to cause developmental toxicity for females:
	None of the ingredients are listed.
. 1	Chemicals known to cause developmental toxicity for males:
	None of the ingredients are listed.
	Chemicals known to cause developmental toxicity:
	None of the ingredients are listed.
	EPA (Environmental Protection Agency):
	None of the ingredients are listed.
•	IARC (International Agency for Research on Cancer):
	None of the ingredients are listed.
. 1	Canadian Domestic Substances List (DSL):

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Date of preparation / last revision April 20, 2018 / -

• Abbreviations and acronyms:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association CAS: Chemical Abstracts Service (division of the American Chemical Society) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent

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(Cont'd. of page 10) PBT: Persistant, Bio-accumulable, Toxic vPvB: very Persistent and very Bioaccumulative OSHA: Occupational Safety & Health Administration Flam. Liq. 2: Flammable liquids - Category 2 Acute Tox. 4: Acute toxicity - Category 4 Skin Corr. 1B: Skin corrosion/irritation - Category 1B Skin Irrit. 2: Skin corrosion/irritation - Category 2 Eye Dam. 1: Serious eye damage/eye irritation - Category 1 Eye Irrit. 2A: Serious eye damage/eye irritation - Category 2A Skin Sens. 1: Skin sensitisation – Category 1 STOT SE 3: Specific target organ toxicity (single exposure) - Category 3 Asp. Tox. 1: Aspiration hazard - Category 1 Sources Website, European Chemicals Agency (echa.europa.eu) Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/ overview/home.do) Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org) Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6 Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5. Safety Data Sheets, Individual Manufacturers SDS Prepared by: ChemTel Inc. 1305 North Florida Avenue Tampa, Florida USA 33602-2902 Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573 Website: www.chemtelinc.com

acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: August 06, 2018

Revision: August 06, 2018

1 Identification

Product identifier

· Trade name: ZyBar

· Other means of identification: No other identifiers

· Recommended use and restriction on use

- · Recommended use: Coating material
- · Restrictions on use: No relevant information available.

[•] Details of the supplier of the Safety Data Sheet

· Manufacturer/Supplier: Zycoat, LLC 15032 W. 117th Street Olathe, KS 66062 (913)599-2600

• Emergency telephone number:

ChemTel Inc. (800)255-3924 (North America) +1 (813)248-0585 (International)

2 Hazard(s) identification

· Classification of the substance or mixture

Flam. Liq. 2 H225 Highly flammable liquid and vapor. Acute Tox, 4 H302 Harmful if swallowed. Skin Irrit. 2 H315 Causes skin irritation. Eye Irrit. 2A H319 Causes serious eye irritation. Carc. 2 H351 Suspected of causing cancer. Repr. 2 H361 Suspected of damaging fertility or the unborn child. Route of exposure: Inhalation. STOT SE 3 H336 May cause drowsiness or dizziness. STOT RE 1 H372 Causes damage to the central nervous system through prolonged or repeated exposure. Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

· Label elements

· GHS label elements

The label elements below are for use on industrial products in the workplace only. Labeling for consumer products in Canada must comply with the Consumer Chemicals and Containers Regulations (CCCR). Labeling for consumer products in the USA must comply with the Consumer Product Safety Commission (CPSC) requirements.

· Hazard pictograms:



· Signal word: Danger · Hazard statements:

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(Cont'd. of page 1) H225 Highly flammable liquid and vapor. H302 Harmful if swallowed. H315 Causes skin irritation. H319 Causes serious eve irritation. H351 Suspected of causing cancer. H361 Suspected of damaging fertility or the unborn child. Route of exposure: Inhalation. H336 May cause drowsiness or dizziness. H372 Causes damage to the central nervous system through prolonged or repeated exposure. H304 May be fatal if swallowed and enters airways. **Precautionary statements:** P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. P210 P233 Keep container tightly closed. Ground/bond container and receiving equipment. P240 P241 Use explosion-proof electrical/ventilating/lighting/equipment. P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge. P260 Do not breathe dusts or mists. P264 Wash thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves/protective clothing/eye protection. If swallowed: Immediately call a poison center/doctor. P301+P310 Rinse mouth. P330 P331 Do NOT induce vomiting. P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P304+P340 IF INHALED: Remove person to fresh air and keep 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. P332+P313 If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. P362+P364 If eye irritation persists: Get medical advice/attention. P337+P313 In case of fire: Use foam, powder, or carbon dioxide for extinction. P370+P378 P403+P235 Store in a well-ventilated place. Keep cool. P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. • Other hazards There are no other hazards not otherwise classified that have been identified.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

· Components:

64742-48-9 Naphtha (petroleum), hydrotreated heavy	10-20%
 Flam. Liq. 3, H226 Asp. Tox. 1, H304 	
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7429-90-5		<10%
108-88-3	Toluene Flam. Liq. 2, H225 Repr. 2, H361; STOT RE 2, H373; Asp. Tox. 1, H304 Skin Irrit. 2, H315; STOT SE 3, H336	<10%
540-88-5	tert-butyl acetate Flam. Liq. 2, H225 STOT SE 3, H336	<10%
64741-66-8	Naphtha (petroleum), light alkylate	<10%
1330-20-7	xylenes Flam. Liq. 3, H226 Asp. Tox. 1, H304 Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; STOT SE 3, H335-H336 Eye Irrit. 2B, H320	<10%
8052-41-3	Stoddard solvent Flam. Liq. 3, H226 STOT RE 1, H372; Asp. Tox. 1, H304	<5%
100-41-4	ethylbenzene Flam. Liq. 2, H225 Carc. 2, H351; STOT RE 2, H373; Asp. Tox. 1, H304 Acute Tox. 4, H332 Eye Irrit. 2B, H320	<5%
108-21-4	isopropyl acetate Flam. Liq. 2, H225 Eye Irrit. 2A, H319; STOT SE 3, H336	<5%
64742-95-6	Solvent naphtha (petroleum), light arom. Flam. Liq. 3, H226 Asp. Tox. 1, H304	<5%
398475-96-2	1,2-Ethanediamine, polymer with aziridine, N-[3-[(2-ethylhexyl)oxy]-3-oxypropyl] dervs., compds. with polyethylene-polypropylene glycol	<5%
64742-47-8	Distillates (petroleum), hydrotreated light Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin Irrit. 2, H315; STOT SE 3, H336	<5%
95-63-6	1,2,4-trimethylbenzene Flam. Liq. 3, H226 Asp. Tox. 1, H304 Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335	<5%
64-17-5	Éthanol Flam. Liq. 2, H225 Eye Irrit. 2A, H319	<1%
1333-86-4	Carbon black	<1%
71-36-3	butan-1-ol	<1%
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Eye Dam. 1, H318

Acute Tox. 4, H302; Skin Irrit. 2, H315; STOT SE 3, H335-H336

· Additional information:

For the listed ingredient(s), the identity and/or exact percentage(s) are being withheld as a trade secret. For the wording of the listed Hazard Statements, refer to section 16.

4 First-aid measures

Description of first aid measures · After inhalation: Supply fresh air. Provide oxygen treatment if affected person has difficulty breathing. If experiencing respiratory symptoms: Call a poison center/doctor. In case of unconsciousness place patient stably in side position for transportation. • After skin contact: Immediately remove any clothing soiled by the product. Immediately wash with water and soap and rinse thoroughly. If skin irritation is experienced, consult a doctor. · After eye contact: Protect unharmed eye. Remove contact lenses if worn. Rinse opened eye for several minutes under running water. Then consult a doctor. · After swallowing: Rinse out mouth and then drink plenty of water. Do not induce vomiting; immediately call for medical help. A person vomiting while lying on their back should be turned onto their side. Most important symptoms and effects, both acute and delayed: Breathing difficulty Dizziness Coughing Allergic reactions Gastric or intestinal disorders when ingested. Nausea in case of ingestion. Irritating to eyes and skin. Disorientation Danger: May cause neurotoxic effects. Condition may deteriorate with alcohol consumption. Danger of impaired breathing. Causes serious eye damage. Harmful if swallowed. May be fatal if swallowed and enters airways. May cause drowsiness or dizziness. Suspected of damaging fertility or the unborn child. Route of exposure: Inhalation. Causes damage to the central nervous system through prolonged or repeated exposure. Suspected of causing cancer. Indication of any immediate medical attention and special treatment needed: If swallowed or in case of vomiting, danger of entering the lungs. Medical supervision for at least 48 hours.

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If necessary oxygen respiration treatment. Later observation for pneumonia and pulmonary edema.

5 Fire-fighting measures

Extinguishing media

Suitable extinguishing agents: Alcohol resistant foam Fire-extinguishing powder Carbon dioxide Gaseous extinguishing agents Water fog / haze
For safety reasons unsuitable extinguishing agents: Water spray Water stream.
Special hazards arising from the substance or mixture Highly flammable liquid and vapor. Formation of toxic gases is possible during heating or in case of fire.
Advice for firefighters
Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

[•] Additional information:

Eliminate all ignition sources if safe to do so. Cool endangered containers with water fog.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

For large spills, use respiratory protective device against the effects of fumes/dust/aerosol. Ensure adequate ventilation.

Keep away from ignition sources.

Protect from heat.

Environmental precautions

Do not allow to enter sewers/ surface or ground water.

Prevent from spreading (e.g. by damming-in or oil barriers).

Inform respective authorities in case of seepage into water course or sewage system.

Methods and material for containment and cleaning up

Absorb with non-combustible liquid-binding material (sand, diatomite, acid binders, universal binders). Send for recovery or disposal in suitable receptacles.

Reference to other sections

See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

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7 Handling and storage

· Handling

Precautions for safe handling: Avoid splashes or spray in enclosed areas. Use only in well ventilated areas. Open and handle receptacle with care. Avoid breathing mist, vapors, or spray. Avoid contact with the eyes and skin.
Information about protection against explosions and fires: Highly flammable liquid and vapor. Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Flammable gas-air mixtures may be formed in empty containers/receptacles.

[•] Conditions for safe storage, including any incompatibilities

 Requirements to be met by storerooms and receptacles: Avoid storage near extreme heat, ignition sources or open flame. Store in cool, dry conditions in well sealed receptacles. Store in a cool location.
 Information about storage in one common storage facility: Store away from foodstuffs. Store away from oxidizing agents.

Specific end use(s) No relevant information available.

8 Exposure controls/personal protection

· Control parameters

Control parameters			
Components with limit values that require monitoring at the workplace:			
7429-90-5 Alum	7429-90-5 Aluminum		
PEL (USA)	Long-term value: 15*; 5** mg/m³ *Total dust; ** Respirable fraction		
REL (USA)	Long-term value: 10* 5** mg/m³ as Al*Total dust**Respirable/pyro powd./welding f.		
TLV (USA)	TLV (USA) Long-term value: 1* mg/m ³ as Al; *as respirable fraction		
EL (Canada)	Long-term value: 1.0 mg/m³ respirable, as Al		
EV (Canada)	Long-term value: 5 mg/m³ aluminium-containing (as aluminium)		
LMPE (Mexico)	Long-term value: 1* mg/m³ A4, *fracciòn respirable		
108-88-3 Tolue	108-88-3 Toluene		
PEL (USA)	Long-term value: 200 ppm Ceiling limit value: 300; 500* ppm *10-min peak per 8-hr shift		
REL (USA)	Short-term value: 560 mg/m³, 150 ppm		
	(Cont'd. on page		

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		(Cont'd. of page 6)
	Long-term value: 375 mg/m ³ , 100 ppm	
TLV (USA)	Long-term value: 75 mg/m³, 20 ppm BEI	
EL (Canada)	Long-term value: 20 ppm R	
EV (Canada)	Long-term value: 20 ppm	
LMPE (Mexico)	Long-term value: 20 ppm A4, IBE	
540-88-5 tert-bi	utyl acetate	
PEL (USA)	Long-term value: 950 mg/m ³ , 200 ppm	
REL (USA)	Long-term value: 950 mg/m³, 200 ppm	
TLV (USA)	Short-term value: 712 mg/m³, 150 ppm Long-term value: 238 mg/m³, 50 ppm	
EL (Canada)	Long-term value: 200 ppm	
EV (Canada)	Long-term value: 950 mg/m³, 200 ppm	
LMPE (Mexico)	Long-term value: 200 ppm	
1330-20-7 xyler	nes	
PEL (USA)	Long-term value: 435 mg/m ³ , 100 ppm	
REL (USA)	Short-term value: 655 mg/m³, 150 ppm Long-term value: 435 mg/m³, 100 ppm	
TLV (USA)	Short-term value: 651 mg/m³, 150 ppm Long-term value: 434 mg/m³, 100 ppm BEI	
EL (Canada)	Short-term value: 150 ppm Long-term value: 100 ppm	
EV (Canada)	Short-term value: 650 mg/m³, 150 ppm Long-term value: 435 mg/m³, 100 ppm	
LMPE (Mexico)	Short-term value: 150 ppm Long-term value: 100 ppm A4, IBE	
8052-41-3 Stod	dard solvent	
PEL (USA)	Long-term value: 2900 mg/m ³ , 500 ppm	
REL (USA)	Long-term value: 350 mg/m³ Ceiling limit value: 1800* mg/m³ *15-min	
TLV (USA)	Long-term value: 525 mg/m³, 100 ppm	
EL (Canada)	Short-term value: 580 mg/m³ Long-term value: 290 mg/m³	
EV (Canada)	Long-term value: 525 mg/m³	
LMPE (Mexico)	Long-term value: 100 ppm	
100-41-4 ethylb	enzene	
PEL (USA)	Long-term value: 435 mg/m ³ , 100 ppm	
REL (USA)	Short-term value: 545 mg/m³, 125 ppm Long-term value: 435 mg/m³, 100 ppm	
		(Cont'd. on page 8)

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		(Cont'd. of page 7)
TLV (USA)	Long-term value: 87 mg/m³, 20 ppm BEI	
EL (Canada)	Long-term value: 20 ppm IARC 2B	
EV (Canada)	Short-term value: 540 mg/m³, 125 ppm Long-term value: 435 mg/m³, 100 ppm	
LMPE (Mexico)	Long-term value: 20 ppm	
108-21-4 isopro	ppyl acetate	
PEL (USA)	Long-term value: 950 mg/m ³ , 250 ppm	
TLV (USA)	Short-term value: 626 mg/m³, 150 ppm Long-term value: 417 mg/m³, 100 ppm	
EL (Canada)	Short-term value: 200 ppm Long-term value: 100 ppm	
EV (Canada)	Short-term value: 200 ppm Long-term value: 100 ppm	
LMPE (Mexico)	Short-term value: 200 ppm Long-term value: 100 ppm	
64742-47-8 Dist	tillates (petroleum), hydrotreated light	
EL (Canada)	Long-term value: 200 mg/m³ Skin	
95-63-6 1,2,4-tr	imethylbenzene	
REL (USA)	Long-term value: 125 mg/m ³ , 25 ppm	
TLV (USA)	Long-term value: 123 mg/m³, 25 ppm	
64-17-5 Ethano	I	
PEL (USA)	Long-term value: 1900 mg/m³, 1000 ppm	
REL (USA)	Long-term value: 1900 mg/m³, 1000 ppm	
TLV (USA)	Short-term value: 1880 mg/m³, 1000 ppm	
EL (Canada)	Short-term value: 1000 ppm	
EV (Canada)	Long-term value: 1,900 mg/m³, 1,000 ppm	
LMPE (Mexico)	Long-term value: 1000 ppm A3	
1333-86-4 Carb	on black	
PEL (USA)	Long-term value: 3.5 mg/m ³	
REL (USA)	Long-term value: 3.5* mg/m ³ *0.1 in presence of PAHs;See Pocket Guide Apps.A+C	
TLV (USA)	Long-term value: 3* mg/m³ *inhalable fraction	
EL (Canada)	Long-term value: 3 mg/m³ IARC 2B	
EV (Canada)	Long-term value: 3.5 mg/m³	
LMPE (Mexico)	Long-term value: 3* mg/m³ A3, *fracción inhalable	
71-36-3 butan-1	I-ol	
		(Cont'd. on page 9)

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		(Cont'd. of page
PEL (USA)	Long-term value: 300 mg/m³, 100 ppm	
REL (USA)	Ceiling limit value: 150 mg/m³, 50 ppm Skin	
TLV (USA)	Long-term value: 61 mg/m³, 20 ppm	
EL (Canada	i) Long-term value: 15 ppm Ceiling limit value: 30 ppm	
EV (Canada	a) Long-term value: 20 ppm	
LMPE (Mex	ico) Long-term value: 20 ppm	
· Ingredients	with biological limit values:	
108-88-3 T	bluene	
	0.02 mg/L Medium: blood Time: prior to last shift of workweek Parameter: Toluene	
	0.03 mg/L Medium: urine Time: end of shift Parameter: Toluene	
	0.3 mg/g creatinine Medium: urine Time: end of shift Parameter: o-Cresol with hydrolysis (background)	
1330-20-7	ylenes	
	1.5 g/g creatinine Medium: urine Time: end of shift Parameter: Methylhippuric acids	
100-41-4 et	hylbenzene	
	0.7 g/g creatinine Medium: urine Time: end of shift at end of workweek Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspec - Medium: end-exhaled air Time: not critical Parameter: Ethyl benzene (semi-quantitative)	ific, semi-quantitative)
The usual p Keep away Immediately Wash hand Do not inha	controls otective and hygienic measures: recautionary measures for handling chemicals should be followed. from foodstuffs, beverages and feed. / remove all soiled and contaminated clothing. s before breaks and at the end of work. le gases / fumes / aerosols. ct with the eyes and skin.	(Cont'd. on page 1

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• Engineering controls: Provide adequate ventilation.

• Breathing equipment: Use suitable respiratory protective device when aerosol or mist is formed. • Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Wear gloves for the protection against mechanical hazards according to OSHA and NIOSH rules. **Eye protection:**



Safety glasses

Follow relevant national guidelines concerning the use of protective eyewear.

· Body protection: Protective work clothing

• Limitation and supervision of exposure into the environment No relevant information available.

· Risk management measures No relevant information available.

Information on basic physical	and chemical properties
Appearance: Form:	Liquid
Color:	According to product specification
· Odor:	Characteristic
Odor threshold:	Not determined.
pH-value:	Not determined.
Melting point/Melting range:	Not determined.
Boiling point/Boiling range:	>35 °C (>95 °F)
Flash point:	<15 °C (<59 °F)
· Flammability (solid, gaseous):	Not applicable.
Auto-ignition temperature:	Not determined.
· Decomposition temperature:	Not determined.
Danger of explosion:	Product is not explosive. However, formation of explosive a vapor mixtures are possible.
Explosion limits	
Lower:	Not determined.
Upper:	Not determined.
Oxidizing properties:	Non-oxidizing.
· Vapor pressure:	Not determined.

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		(Cont'd. of page
Relative density:	1.02	
Vapor density:	Not determined.	
Evaporation rate:	Not determined.	
Solubility in / Miscibility with		
Water:	Partly miscible.	
Partition coefficient (n-octan	ol/water): Not determined.	
Viscosity		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Other information	No relevant information available.	

• **Reactivity:** No relevant information available.

· Chemical stability: Stable under normal temperatures and pressures.

Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

Possibility of hazardous reactions

Highly flammable liquid and vapor.

Reacts violently with oxidizing agents.

Reacts with strong acids and alkali.

Toxic fumes may be released if heated above the decomposition point.

Used empty containers may contain product gases which form explosive mixtures with air.

Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomized.

Conditions to avoid

Keep ignition sources away - Do not smoke.

Store away from oxidizing agents.

Incompatible materials Oxidizers

[•] Hazardous decomposition products

Under fire conditions only:

Toxic metal oxide smoke

Carbon monoxide and carbon dioxide

Nitrogen oxides (NOx)

		toxicological effects armful if swallowed.	
LD/LC50	values t	hat are relevant for classification:	
DT-490A	(TNG_U	HTR Version)	
Oral	LD50	1,000-6,000 mg/kg (rat)	
Dermal	LD50	>5,000 mg/kg (rabbit)	
64742-48	-9 Napht	ha (petroleum), hydrotreated heavy	

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		(Cont'd. of page 1
Oral	LD50	>5,000 mg/kg (rat)
Dermal	LD50	>3,000 mg/kg (rabbit)
108-88-3	Toluene	
Oral	LD50	5,000 mg/kg (rat)
Dermal	LD50	12,124 mg/kg (rabbit)
Inhalative	LC50/4h	5,320 mg/l (mouse)
1330-20-7	xylenes	
Oral	LD50	4,300 mg/kg (rat)
Dermal	LD50	2,000 mg/kg (rabbit)
100-41-4	ethylbenz	ene
Oral	LD50	3,500 mg/kg (rat)
Dermal	LD50	17,800 mg/kg (rabbit)
64742-95-	6 Solven	t naphtha (petroleum), light arom.
Oral	LD50	>6,800 mg/kg (rat)
Dermal	LD50	>3,400 mg/kg (rab)
64742-47-	8 Distilla	tes (petroleum), hydrotreated light
Oral	LD50	>5,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rabbit)
95-63-6 1,		thylbenzene
Oral · Primary i	LD50	5,000 mg/kg (rat)
· On the ey · Sensitizat	re: Irritatin tion: Base	t to skin and mucous membranes. g effect. ed on available data, the classification criteria are not met. I Agency for Research on Cancer):
	ethylben	
	Ethanol	
1333-86-4		
		icology Program):
None of th	ne ingredie	ents are listed.
	` !	tional Safety & Health Administration):
	•	ents are listed.
Ingestion. Inhalation. Eye conta Skin conta Germ cell Carcinogo Reproduc STOT-sin STOT-rep	ct. act. I mutager enicity: S ctive toxic gle expos beated exp	nicity: Based on available data, the classification criteria are not met. uspected of causing cancer. city: Suspected of damaging fertility or the unborn child. Route of exposure: Inhalation sure: May cause drowsiness or dizziness. posure: to the central nervous system through prolonged or repeated exposure.
		(Cont'd. on page 1

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Safety Data Sheet

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· Aspiration hazard: May be fatal if swallowed and enters airways.

Toxic	
	ic toxicity
	ul to aquatic life with long lasting effects.
	20-7 xylenes
	13.4 mg/l (pimephales promelas)
	1-4 ethylbenzene
	1-10 mg/kg (daphnia)
LC50	1-10 mg/l (Green Algae (chlorophyta))
	4.2 mg/l (Oncorhynchus mykiss)
39847	5-96-2 1,2-Ethanediamine, polymer with aziridine, N-[3-[(2-ethylhexyl)oxy]-3-oxypropy dervs., compds. with polyethylene-polypropylene glycol
EC50	<1 mg/kg (Pseudokirchneriella subcapitata)
LC50	8 mg/l (Oncorhynchus mykiss)
Bioac Mobili Ecoto Rema	 stence and degradability No relevant information available. cumulative potential: No relevant information available. ity in soil: No relevant information available. oxical effects: rk: Due to mechanical actions of the product (e.g. agglutinations), damages may occur. ional ecological information
Do not Due to damaç Resu PBT:	ral notes: t allow product to reach ground water, water course or sewage system. to available data on eliminability/decomposition and bioaccumulation potential prolonged ter ge of the environment can not be excluded. Its of PBT and vPvB assessment Not applicable.

13 Disposal considerations

[·] Waste treatment methods

· Recommendation:

Can be disposed of with household garbage after solidification following consultation with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations. The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

[·] Uncleaned packagings

· Recommendation: Disposal must be made according to official regulations.

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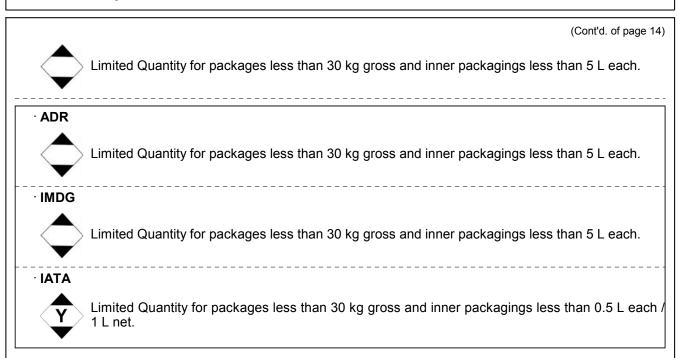
(Cont'd. of page 13)

UN-Number DOT, ADR, IMDG, IATA	UN1139	
UN proper shipping name DOT, IATA ADR, IMDG	Coating solution COATING SOLUTION	
Transport hazard class(es)		
DOT		
Class	3	
ADR	3	
Class	3 (F1)	
	3	
Class	3	
Label	3	
Packing group DOT, ADR, IMDG, IATA	II	
Environmental hazards Marine pollutant:	No	
Special precautions for user Danger code (Kemler): EMS Number:	Warning: Flammable liquids 33 F-E, <u>S-E</u>	
Transport in bulk according to Annex MARPOL73/78 and the IBC Code	II of Not applicable.	
Transport/Additional information:		

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15 Regulatory information · Safety, health and environmental regulations/legislat mixture · United States (USA) · SARA	tion specific for the substance or
• Section 302 (extremely hazardous substances):	
None of the ingredients are listed.	
 Section 355 (extremely hazardous substances): 	
None of the ingredients are listed.	
· Section 313 (Specific toxic chemical listings):	
7429-90-5 Aluminum	
108-88-3 Toluene	
1330-20-7 xylenes	
100-41-4 ethylbenzene	
95-63-6 1,2,4-trimethylbenzene	
• TSCA (Toxic Substances Control Act)	
All ingredients are listed.	
 Proposition 65 (California) Chemicals known to cause cancer: Ethanol - listing refers specifically to alcoholic beverage consump 100-41-4 ethylbenzene 64-17-5 Ethanol 	tion and is not applicable for product.
· · · ·	(Cont'd. on page 16

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1333-86-4	Carbon black		
· Chemicals	known to cause developmental toxicity for females:		
None of the	ingredients are listed.		
· Chemicals	known to cause developmental toxicity for males:		
None of the	ingredients are listed.		
	known to cause developmental toxicity: ting refers specifically to alcoholic beverage consumption and is not applicable for product.		
108-88-3 T	oluene		
64-17-5 E	thanol		
· EPA (Envir	onmental Protection Agency):		
108-88-3	Toluene	II	
1330-20-7		1	
100-41-4	ethylbenzene	D	
	1,2,4-trimethylbenzene	II	
71-36-3	butan-1-ol	D	
· IARC (Inter	national Agency for Research on Cancer):		
100-41-4	ethylbenzene 2	2B	
64-17-5	Ethanol	1	
1333-86-4	Carbon black 2	2B	
· Canadian I	Domestic Substances List (DSL) (Substances not listed.):		
All ingredier	All ingredients listed on DSL or NDSL.		

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Abbreviations and acronyms:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association CAS: Chemical Abstracts Service (division of the American Chemical Society) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistant, Bio-accumulable, Toxic vPvB: very Persistent and very Bioaccumulative OSHA: Occupational Safety & Health Administration Flam. Liq. 2: Flammable liquids - Category 2 Flam. Liq. 3: Flammable liquids - Category 3 Acute Tox. 4: Acute toxicity - Category 4 Skin Irrit. 2: Skin corrosion/irritation - Category 2 Eye Dam. 1: Serious eye damage/eye irritation - Category 1 Eye Irrit. 2A: Serious eye damage/eye irritation - Category 2A Eye Irrit. 2B: Serious eye damage/eye irritation - Category 2B Carc. 2: Carcinogenicity - Category 2 Repr. 2: Reproductive toxicity - Category 2 STOT SE 3: Specific target organ toxicity (single exposure) - Category 3 STOT RE 1: Specific target organ toxicity (repeated exposure) - Category 1 STOT RE 2: Specific target organ toxicity (repeated exposure) - Category 2

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Asp. Tox. 1: Aspiration hazard – Category 1 **Sources** Website, European Chemicals Agency (echa.europa.eu) Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/ overview/home.do) Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org) Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6 Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5. Safety Data Sheets, Individual Manufacturers SDS Prepared by: ChemTel Inc. 1305 North Florida Avenue Tampa, Florida USA 33602-2902

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