

SAFETY DATA SHEET

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

1.1. Product identifier

Trade name or designation of the mixture CREATE CLEAR-Part A THAT
Registration number -
Synonyms None.
Product code Tin Free
Issue date 24-March-2014
Version number 02
Revision date 11-June-2014
Supersedes date 24-March-2014

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

Identified uses Dry erase coating.
Uses advised against None known.

1.3. Details of the supplier of the safety data sheet

Manufacturer/Supplier IdeaPaint
40 Broad Street Boston, MA 02109
United States
Telephone number 617.714.1050
e-mail marty@ideapaint.com
Contact person IdeaPaint
Emergency 1-760-476-3961
Access Code: 333641

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Directive 67/548/EEC or 1999/45/EC as amended

Classification R43, R52/53

Classification according to Regulation (EC) No 1272/2008 as amended

Health hazards
Skin sensitisation Category 1 H317 - May cause an allergic skin reaction.

Environmental hazards
Hazardous to the aquatic environment, long-term aquatic hazard Category 3 H412 - Harmful to aquatic life with long lasting effects.

Hazard summary

Physical hazards Not classified for physical hazards.
Health hazards May cause sensitisation by skin contact.
Environmental hazards Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Specific hazards Preparation contains an epoxy resin, which may cause sensitisation and development of allergy.
Main symptoms Sensitisation.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

Contains: 2,3-Epoxypropyl neodecanoate

Hazard pictograms



Signal word Warning

Hazard statements H317 - May cause an allergic skin reaction.
H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements

Prevention	P261 - Avoid breathing mist or vapour. P272 - Contaminated work clothing should not be allowed out of the workplace. P280 - Wear protective gloves. P273 - Avoid release to the environment.
Response	P302 + P352 - IF ON SKIN: Wash with plenty of water. P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention. P363 - Wash contaminated clothing before reuse.
Storage	Store away from incompatible materials.
Disposal	P501 - Dispose of contents/container in accordance with local/regional/national/international regulations.

Supplemental label information None.

2.3. Other hazards None known.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
2,3-Epoxypropyl neodecanoate	9-12	26761-45-5 247-979-2	-	-	
Classification:	DSD: R43, N;R51/53				
	CLP: Skin Sens. 1;H317, Aquatic Chronic 2;H411				
Dimethyl silicone polymer with silica	1-5	67762-90-7	-	-	
Classification:	DSD: -				
	CLP: Eye Irrit. 2;H319				

DSD: Directive 67/548/EEC.

CLP: Regulation No. 1272/2008.

Composition comments The full text for all R-phrases is displayed in section 16 of the SDS. All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

SECTION 4: First aid measures

General information Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

4.1. Description of first aid measures

Inhalation	If symptomatic, move to fresh air. Get medical attention if any discomfort continues.
Skin contact	Remove contaminated clothes and rinse skin thoroughly with water for at least 15 minutes. Get medical attention if irritation develops or persists.
Eye contact	Remove any contact lenses and open eyelids wide apart. Get medical attention if irritation develops or persists.
Ingestion	Immediately rinse mouth and drink plenty of water. Keep person under observation. If person becomes uncomfortable take to hospital along with these instructions. Only induce vomiting at the instruction of medical personnel.

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

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

SECTION 5: Firefighting measures

General fire hazards The product is not flammable.

5.1. Extinguishing media

Suitable extinguishing media	Carbon dioxide, regular foam, dry chemical, water spray, or water fog.
Unsuitable extinguishing media	None known.

5.2. Special hazards arising from the substance or mixture Fire or high temperatures create: Carbon oxides. Nitrogen Oxides Metal oxides.

5.3. Advice for firefighters

Special protective equipment for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Special fire fighting procedures Move containers from fire area if you can do it without risk. Prevent runoff from fire control or dilution from entering streams, sewers or drinking water supply.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel Keep unnecessary personnel away. Local authorities should be advised if significant spillages cannot be contained. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering. Avoid inhalation of vapours and contact with skin and eyes. Wear protective clothing as described in section 8 of this safety data sheet.

For emergency responders Use personal protection recommended in Section 8 of the SDS.

6.2. Environmental precautions Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up Keep unnecessary personnel away.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills in original containers for re-use.

6.4. Reference to other sections For personal protection, see Section 8 of the SDS. For waste disposal, see Section 13 of the SDS.

SECTION 7: Handling and storage

7.1. Precautions for safe handling Use Personal Protective Equipment recommended in section 8 of the SDS. Eating, drinking, and smoking should be prohibited in areas where this material is handled, stored, and processed. Persons with epoxy allergy should not work with this product. Avoid inhalation of vapors and contact with skin, eyes and clothing. Avoid release to the environment. Provide adequate ventilation. In case of inadequate ventilation, use respiratory protection. Good personal hygiene is necessary. Wash hands and contaminated areas with water and soap before leaving the work site. Do not reuse this container. "Empty" containers retain product residue (liquid or vapour) and can be dangerous.

7.2. Conditions for safe storage, including any incompatibilities Store in accordance with local, regional, national, and international regulations. Store in tightly closed original container in a dry, cool and well-ventilated place. Protect from direct sunlight. Store away from incompatible materials. Keep away from food, drink and animal feeding stuffs. Do not store in unlabelled containers. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Use appropriate container to avoid environmental contamination.

7.3. Specific end use(s) Dry erase coating.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits No exposure limits noted for ingredient(s).

Biological limit values No biological exposure limits noted for the ingredient(s).

Recommended monitoring procedures Follow standard monitoring procedures.

Derived no-effect level (DNEL) Not available.

Predicted no effect concentrations (PNECs) Not available.

Control banding approach None known.

8.2. Exposure controls

Appropriate engineering controls Ensure adequate ventilation, especially in confined areas. Provide easy access to water supply and eye wash facilities.

Individual protection measures, such as personal protective equipment

General information Personal protective equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

Eye/face protection Chemical goggles are recommended.

Skin protection

- Hand protection Wear protective gloves. Butyl rubber gloves are recommended.

- Other	Wear suitable protective clothing.
Respiratory protection	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
Hygiene measures	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned. Do not eat, drink or smoke when using the product. Handle in accordance with good industrial hygiene and safety practices.
Environmental exposure controls	Contain spills and prevent releases and observe national regulations on emissions. Environmental manager must be informed of all major releases.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Transparent liquid
Physical state	Liquid.
Form	Liquid.
Colour	Clear.
Odour	Mild.
Odour threshold	Not available.
pH	8,5 - 10 Delivered form.
Melting point/freezing point	Protect from freezing.
Initial boiling point and boiling range	> 200 °C (> 392 °F)
Flash point	> 93,3 °C (> 200,0 °F) ASTM D56 Tag closed cup
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Vapour pressure	Not available.
Vapour density	Not available.
Relative density	1,14
Solubility(ies)	Insoluble in water.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	< 1200 cP
Explosive properties	Not available.
Oxidizing properties	Not available.
9.2. Other information	
VOC (Weight %)	< 25 g/l (as packaged)

SECTION 10: Stability and reactivity

10.1. Reactivity	The product is non-reactive under normal conditions of use, storage and transport.
10.2. Chemical stability	Stable at normal conditions.
10.3. Possibility of hazardous reactions	Hazardous polymerisation does not occur.
10.4. Conditions to avoid	Heat.
10.5. Incompatible materials	Water. Acids. Oxidising material. Strong alkaline.
10.6. Hazardous decomposition products	None in particular.

SECTION 11: Toxicological information

General information	Occupational exposure to the substance or mixture may cause adverse effects.
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Information on likely routes of exposure

Ingestion	May cause discomfort if swallowed.
Inhalation	Under normal conditions of intended use, this material is not expected to be an inhalation hazard.
Skin contact	May cause an allergic skin reaction.
Eye contact	May cause eye irritation on direct contact.

Symptoms Sensitisation.

11.1. Information on toxicological effects

Acute toxicity	May cause discomfort if swallowed.
Skin corrosion/irritation	May cause skin irritation.
Serious eye damage/eye irritation	Not classified.
Respiratory sensitisation	Not classified.
Skin sensitisation	May cause sensitisation by skin contact.
Germ cell mutagenicity	Not classified.
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
Reproductive toxicity	Not classified.
Specific target organ toxicity - single exposure	Not classified.
Specific target organ toxicity - repeated exposure	Not classified.
Aspiration hazard	Not classified.
Mixture versus substance information	Not available.
Other information	No other specific acute or chronic health impact noted.

SECTION 12: Ecological information

12.1. Toxicity	Harmful to aquatic life with long lasting effects.
12.2. Persistence and degradability	No data is available on the degradability of this product.
12.3. Bioaccumulative potential	Not available.
Bioconcentration factor (BCF)	Not available.
12.4. Mobility in soil	Not available.
12.5. Results of PBT and vPvB assessment	Not a PBT or vPvB substance or mixture.
12.6. Other adverse effects	None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual waste	Do not allow this material to drain into sewers/water supplies. Dispose in accordance with all applicable regulations.
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal.
EU waste code	08 01 11*
Disposal methods/information	Dispose in accordance with all applicable regulations.

SECTION 14: Transport information

ADR

Not regulated as dangerous goods.

RID

Not regulated as dangerous goods.

ADN

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

SECTION 15: Regulatory information

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

EU regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I

Not listed.

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex II

Not listed.

Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1 as amended

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2 as amended

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3 as amended

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V as amended

Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry

Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA

Not listed.

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended

Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended

Not listed.

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work

Not listed.

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding

Not listed.

Other EU regulations

Directive 96/82/EC (Seveso II) on the control of major-accident hazards involving dangerous substances

Not listed.

Directive 94/33/EC on the protection of young people at work

Not listed.

Other regulations

This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006. The product has been classified according to the legislation in force.

National regulations

Young people under 18 years old are not allowed to work with this product according to the EU Directive 94/33/EC on the protection of young people at work. Follow national regulation for work with chemical agents.

15.2. Chemical safety assessment

Not available.

SECTION 16: Other information

List of abbreviations

DNEL: Derived No-Effect Level.
PNEC: Predicted No-Effect Concentration.
PBT: Persistent, bioaccumulative and toxic.
vPvB: Very Persistent and very Bioaccumulative.
DSD: Directive 67/548/EEC.
CLP: Regulation No. 1272/2008.

References

IUCLID
RTECS
HSDB® - Hazardous Substances Data Bank

Information on evaluation method leading to the classification of mixture

The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

Full text of any statements or R-phrases and H-statements under Sections 2 to 15

R43 May cause sensitisation by skin contact.
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H411 Toxic to aquatic life with long lasting effects.

Training information

Follow training instructions when handling this material.

Disclaimer

The information in the sheet was written based on the best knowledge and experience currently available.

SAFETY DATA SHEET

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

1.1. Product identifier

Trade name or designation of the mixture	CREATE CLEAR- Part B THIS
Registration number	-
Synonyms	None.
Product code	Tin Free
Issue date	24-March-2014
Version number	02
Revision date	11-June-2014
Supersedes date	24-March-2014

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

Identified uses	Dry erase coating.
Uses advised against	None known.

1.3. Details of the supplier of the safety data sheet

Manufacturer/Supplier	IdeaPaint 40 Broad Street Boston, MA 02109 United States
Telephone number	617.714.1050
e-mail	marty@ideapaint.com
Contact person	IdeaPaint
Emergency	1-760-476-3961 Access Code: 333641

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Directive 67/548/EEC or 1999/45/EC as amended

Classification C;R34, Xn;R22

Classification according to Regulation (EC) No 1272/2008 as amended

Health hazards

Acute toxicity, oral	Category 4	H302 - Harmful if swallowed.
Skin corrosion/irritation	Category 1B	H314 - Causes severe skin burns and eye damage.
Serious eye damage/eye irritation	Category 1	H318 - Causes serious eye damage.

Hazard summary

Physical hazards	Not classified for physical hazards.
Health hazards	Harmful if swallowed. Causes burns.
Environmental hazards	Not classified for hazards to the environment.
Specific hazards	Causes skin, eye and digestive tract burns.
Main symptoms	Contact with this material will cause burns to the skin, eyes and mucous membranes.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

Contains: 3-Aminopropyltriethoxysilane

Hazard pictograms



Signal word Danger

Hazard statements
H302 - Harmful if swallowed.
H314 - Causes severe skin burns and eye damage.
H318 - Causes serious eye damage.

Precautionary statements

Prevention

P260 - Do not breathe mist or vapour.
P264 - Wash thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.

Response

P301 + P330 + P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
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.
P363 - Wash contaminated clothing before reuse.
P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P310 - Immediately call a POISON CENTER/doctor.
P321 - Specific treatment (see this label).
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Storage

P405 - Store locked up.

Disposal

P501 - Dispose of contents/container in accordance with local/regional/national/international regulations.

Supplemental label information None.

2.3. Other hazards None known.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
3-Aminopropyltriethoxysilane	100	919-30-2 213-048-4	-	612-108-00-0	
Classification:	DSD:	C;R34, Xn;R22			
	CLP:	Acute Tox. 4;H302, Skin Corr. 1B;H314			

SECTION 4: First aid measures

General information First aid personnel must be aware of own risk during rescue.

4.1. Description of first aid measures

Inhalation Move into fresh air and keep at rest. Get medical attention if symptoms persist.
Skin contact Remove contaminated clothing immediately and wash skin with soap and water. Thoroughly wash (or discard) clothing and shoes before reuse. Get medical attention immediately.
Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove any contact lenses and open eyelids wide apart. Get medical attention immediately.
Ingestion Rinse mouth thoroughly with water and give large amounts of milk or water to people not unconscious. Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs. Lay on the side. Get medical attention if any discomfort continues.

4.2. Most important symptoms and effects, both acute and delayed Contact with this material will cause burns to the skin, eyes and mucous membranes.

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

SECTION 5: Firefighting measures

General fire hazards The product is not flammable.

5.1. Extinguishing media

Suitable extinguishing media Water spray. Dry chemical powder. Foam. Carbon dioxide (CO₂).
Unsuitable extinguishing media Water jet.

5.2. Special hazards arising from the substance or mixture During fire, gases hazardous to health may be formed.

5.3. Advice for firefighters

Special protective equipment for firefighters

Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace. Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Special fire fighting procedures

Use standard firefighting procedures and consider the hazards of other involved materials. Cool containers exposed to heat with water spray and remove container, if no risk is involved.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Keep unnecessary personnel away. Local authorities should be advised if significant spillages cannot be contained. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering. Do not get in eyes and skin. Avoid inhalation of vapours. Wear protective clothing as described in section 8 of this safety data sheet.

For emergency responders

Use personal protection recommended in Section 8 of the SDS.

6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up

Keep unnecessary personnel away.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills in original containers for re-use.

6.4. Reference to other sections

For personal protection, see Section 8 of the SDS. For waste disposal, see Section 13 of the SDS.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Use Personal Protective Equipment recommended in section 8 of the SDS. Eating, drinking, and smoking should be prohibited in areas where this material is handled, stored, and processed. Persons with epoxy allergy should not work with this product. Avoid inhalation of vapors and contact with skin, eyes and clothing. Avoid release to the environment. Provide adequate ventilation. In case of inadequate ventilation, use respiratory protection. Good personal hygiene is necessary. Wash hands and contaminated areas with water and soap before leaving the work site. Do not reuse this container. "Empty" containers retain product residue (liquid or vapour) and can be dangerous.

7.2. Conditions for safe storage, including any incompatibilities

Store in accordance with local, regional, national, and international regulations. Store in tightly closed original container in a dry, cool and well-ventilated place. Protect from direct sunlight. Store away from incompatible materials. Keep away from food, drink and animal feeding stuffs. Do not store in unlabelled containers. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Use appropriate container to avoid environmental contamination.

7.3. Specific end use(s)

Dry erase coating.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Finland. Workplace Exposure Limits

Components	Type	Value
3-Aminopropyltriethoxysilane (CAS 919-30-2)	STEL	55 mg/m3
	TWA	6 ppm
		28 mg/m3
		3 ppm

Biological limit values

No biological exposure limits noted for the ingredient(s).

Recommended monitoring procedures

Follow standard monitoring procedures.

Derived no-effect level (DNEL)

Not available.

Predicted no effect concentrations (PNECs)

Not available.

8.2. Exposure controls

Appropriate engineering controls	Ensure adequate ventilation, especially in confined areas. Provide easy access to water supply and eye wash facilities.
Individual protection measures, such as personal protective equipment	
General information	Personal protective equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.
Eye/face protection	Wear approved safety goggles.
Skin protection	
- Hand protection	Wear appropriate chemical resistant gloves. Butyl rubber gloves are recommended, but be aware that the liquid may penetrate the gloves. Frequent change is advisable. PVC gloves are recommended.
- Other	Wear appropriate chemical resistant clothing to prevent any possibility of skin contact. Wear chemical protective equipment that is specifically recommended by the Personal Protective Equipment manufacturer.
Respiratory protection	In case of inadequate ventilation or risk of inhalation of vapours, use suitable respiratory equipment. No specific recommendation made, but respiratory protection must be used if the general level exceeds the Recommended Occupational Exposure Limit
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
Hygiene measures	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.
Environmental exposure controls	Environmental manager must be informed of all major releases.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Colorless to yellowish liquid.
Physical state	Liquid.
Form	Liquid.
Colour	Colorless to yellowish.
Odour	Amine-like.
Odour threshold	Not available.
pH	11,3 (500 g/l (20 °C/68 °F))
Melting point/freezing point	< -70 °C (< -94 °F)
Initial boiling point and boiling range	220 °C (428 °F) (1013 hPa)
Flash point	93,0 °C (199,4 °F) (1013 hPa)
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or explosive limits	
Explosive limit - lower (%)	0,8 %
Explosive limit – upper (%)	4,5 %
Vapour pressure	8 Pa (20°C)
Vapour density	Not available.
Relative density	0,95 g/cm ³
Solubility(ies)	5,4 g/l (20 °C)
Partition coefficient (n-octanol/water)	Not applicable.
Auto-ignition temperature	300 °C (572 °F)
Decomposition temperature	Not available.
Viscosity	2 mPa·s (20 °C)
Explosive properties	Not available.
Oxidizing properties	Not available.

9.2. Other information

VOC (Weight %)	0 g/l (as packaged)
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SECTION 10: Stability and reactivity

10.1. Reactivity	The product is non-reactive under normal conditions of use, storage and transport.
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10.2. Chemical stability	Stable under normal temperature conditions.
10.3. Possibility of hazardous reactions	Hazardous polymerisation does not occur.
10.4. Conditions to avoid	Avoid heat, sparks, open flames and other ignition sources.
10.5. Incompatible materials	Strong oxidising agents. Strong acids.
10.6. Hazardous decomposition products	Ethanol in case of hydrolysis.

SECTION 11: Toxicological information

General information	Occupational exposure to the substance or mixture may cause adverse effects.
Information on likely routes of exposure	
Ingestion	May cause burns to mouth, throat and stomach. Harmful if swallowed.
Inhalation	May cause respiratory tract irritation.
Skin contact	Causes skin burns.
Eye contact	Causes eye burns.
Symptoms	Contact with this material will cause burns to the skin, eyes and mucous membranes.
11.1. Information on toxicological effects	
Acute toxicity	Harmful if swallowed.
Skin corrosion/irritation	Causes skin burns.
Serious eye damage/eye irritation	Causes eye burns.
Respiratory sensitisation	Not classified.
Skin sensitisation	Not classified.
Germ cell mutagenicity	Not classified.
Carcinogenicity	Not classified.
Reproductive toxicity	Not classified.
Specific target organ toxicity - single exposure	Not classified.
Specific target organ toxicity - repeated exposure	Not classified.
Aspiration hazard	Not classified.
Mixture versus substance information	Not available.
Other information	No other specific acute or chronic health impact noted.

SECTION 12: Ecological information

12.1. Toxicity	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
12.2. Persistence and degradability	Not available.
12.3. Bioaccumulative potential	Not available.
Partition coefficient n-octanol/water (log Kow)	Not applicable.
Bioconcentration factor (BCF)	Not available.
12.4. Mobility in soil	Not available.
12.5. Results of PBT and vPvB assessment	Not a PBT or vPvB substance or mixture.
12.6. Other adverse effects	The product is not expected to be hazardous to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods	
Residual waste	Dispose of waste and residues in accordance with local authority requirements. Do not discharge into rivers, lakes, mountains, etc. because the product may affect the environment.
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal.
EU waste code	08 01 11
Disposal methods/information	Disposal recommendations are based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.

SECTION 14: Transport information

ADR

14.1. UN number	UN3267
14.2. UN proper shipping name	Corrosive liquid, basic, organic, n.o.s. (3-Aminopropyltriethoxysilane)
14.3. Transport hazard class(es)	
Class	8
Subsidiary risk	-
Label(s)	8
Hazard No. (ADR)	80
Tunnel restriction code	E
14.4. Packing group	II
14.5. Environmental hazards	No.
14.6. Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

RID

14.1. UN number	UN3267
14.2. UN proper shipping name	Corrosive liquid, basic, organic, n.o.s. (3-Aminopropyltriethoxysilane)
14.3. Transport hazard class(es)	
Class	8
Subsidiary risk	-
Label(s)	8
14.4. Packing group	II
14.5. Environmental hazards	No.
14.6. Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

ADN

14.1. UN number	UN3267
14.2. UN proper shipping name	Corrosive liquid, basic, organic, n.o.s. (3-Aminopropyltriethoxysilane)
14.3. Transport hazard class(es)	
Class	8
Subsidiary risk	-
Label(s)	8
14.4. Packing group	II
14.5. Environmental hazards	No.
14.6. Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

IATA

14.1. UN number	UN3267
14.2. UN proper shipping name	Corrosive liquid, basic, organic, n.o.s. (3-Aminopropyltriethoxysilane)
14.3. Transport hazard class(es)	
Class	8
Subsidiary risk	-
Label(s)	8
14.4. Packing group	II
14.5. Environmental hazards	No
ERG Code	8L
14.6. Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

IMDG

14.1. UN number	UN3267
14.2. UN proper shipping name	Corrosive liquid, basic, organic, n.o.s. (3-Aminopropyltriethoxysilane)
14.3. Transport hazard class(es)	
Class	8
Subsidiary risk	-
Label(s)	8
14.4. Packing group	II
14.5. Environmental hazards	
Marine pollutant	No
EmS	F-A, S-B

- 14.6. Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.
- 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable.

SECTION 15: Regulatory information

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

EU regulations

- Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I**
Not listed.
- Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex II**
Not listed.
- Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended**
Not listed.
- Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1 as amended**
Not listed.
- Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2 as amended**
Not listed.
- Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3 as amended**
Not listed.
- Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V as amended**
Not listed.
- Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry**
Not listed.
- Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA**
Not listed.

Authorisations

- Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended**
Not listed.

Restrictions on use

- Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended**
Not listed.
- Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work**
Not listed.
- Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding**
Not listed.

Other EU regulations

- Directive 96/82/EC (Seveso II) on the control of major-accident hazards involving dangerous substances**
Not listed.
- Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work**
3-Aminopropyltriethoxysilane (CAS 919-30-2)
- Directive 94/33/EC on the protection of young people at work**
3-Aminopropyltriethoxysilane (CAS 919-30-2)

Other regulations

This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006. The product has been classified according to the legislation in force.

National regulations

Young people under 18 years old are not allowed to work with this product according to the EU Directive 94/33/EC on the protection of young people at work. Follow national regulation for work with chemical agents.

15.2. Chemical safety assessment

Not available.

SECTION 16: Other information

List of abbreviations	DNEL: Derived No-Effect Level. PNEC: Predicted No-Effect Concentration. PBT: Persistent, bioaccumulative and toxic. vPvB: Very Persistent and very Bioaccumulative. DSD: Directive 67/548/EEC. CLP: Regulation No. 1272/2008.
References	IUCLID RTECS HSDB® - Hazardous Substances Data Bank
Information on evaluation method leading to the classification of mixture	The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.
Full text of any statements or R-phrases and H-statements under Sections 2 to 15	R22 Harmful if swallowed. R34 Causes burns. H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage.
Training information	Follow training instructions when handling this material.
Disclaimer	The information in the sheet was written based on the best knowledge and experience currently available.