SAFETY DATA SHEET

C.A.R.FIT Epoxy Metal Filler

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

1.1. Product identifier

Trade name

C.A.R.FIT Epoxy Metal Filler

Other names / Synonyms

C.A.R.FIT Epoxy Metal Filler

Product no.

2-184-0200

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

Relevant identified uses of the substance or mixture

None known.
Restricted to professional users.

Uses advised against

None known.

1.3. Details of the supplier of the safety data sheet

Company and address

August Handel GmbH
Ahornstraße 12
14959 Trebbin
Germany
+49 (0)33731 70 79 60
www.augusthandel.com

E-mail

info@augusthandel.com

Revision

12/08/2023

SDS Version

1.0

1.4. Emergency telephone number

Contact The National Poisons Information Service (dial 111, 24 h service).
See section 4 “First aid measures”.

SECTION 2: Hazards identification

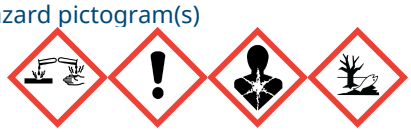
Classified according to Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law.

2.1. Classification of the substance or mixture

Skin Corr. 1B; H314, Causes severe skin burns and eye damage.
Skin Sens. 1; H317, May cause an allergic skin reaction.
Eye Dam. 1; H318, Causes serious eye damage.
Repr. 1B; H360, May damage fertility or the unborn child.
Aquatic Chronic 2; H411, Toxic to aquatic life with long lasting effects.

2.2. Label elements

Hazard pictogram(s)



Signal word

Danger

Hazard statement(s)

Causes severe skin burns and eye damage. (H314)
May cause an allergic skin reaction. (H317)
May damage fertility or the unborn child. (H360)
Toxic to aquatic life with long lasting effects. (H411)

Precautionary statement(s)

General

-

Prevention

Obtain special instructions before use. (P201)
Keep container tightly closed. (P233)
Do not breathe vapour. (P260)
Avoid breathing vapour. (P261)
Wash hands thoroughly after handling. (P264)
Avoid release to the environment. (P273)
Wear protective gloves/eye protection/face protection. (P280)

Response

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. (P301+P330+P331)
IF ON SKIN: Wash with plenty of water and soap. (P302+P352)
IF INHALED: Remove person to fresh air and keep comfortable for breathing. (P304+P340)
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P305+P351+P338)
Immediately call a POISON CENTER/doctor. (P310)
If skin irritation or rash occurs: Get medical advice/attention. (P333+P313)
Collect spillage. (P391)

Storage

-

Disposal

Dispose of contents/container in accordance with local regulation (P501)

Hazardous substances

bis-[4-(2,3-epoxipropoxi)phenyl]propane
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol
Phenol, 4,4'- (1-methylethylidene)bis-, polymer with 2-(chloromethyl)oxirane, reaction products with 2,2,4(or 2,4,4)-trimethyl-1,6-hexanediamine (chloromethyl)oxirane, reaction products with 2,2,4(or 2,4,4)-trimethyl-1,6-hexanediamine
2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine
4,4'-isopropylidenediphenol; bisphenol A;4,4’-isopropylidenediphenol
1,4-bis(2,3 epoxypropoxy)butane;butanedioldiglycidyl ether
2,2'-iminodiethylamine;diethylenetriamine

Additional labelling

Restricted to professional users.

VOC

VOC content: 21 g/L
MAXIMUM VOC CONTENT (Phase II, category B/b: 250 g/L)

2.3. Other hazards

Additional warnings

May form combustible dust concentrations in air.
This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.
The substance(s) shown below are considered to be endocrine disruptors according to the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.
4,4'-isopropylidenediphenol; bisphenol A;4,4’-isopropylidenediphenol

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable. This product is a mixture.

3.2. Mixtures

Product/substance	Identifiers	% w/w	Classification	Note
barium sulphate	CAS No.: 7727-43-7	20 - 25%		[1]

	EC No.: 231-784-4 UK-REACH: Index No.:			
bis-[4-(2,3-epoxipropoxi)phenyl]propane	CAS No.: 1675-54-3 EC No.: 216-823-5 UK-REACH: Index No.: 603-073-00-2	20 - 25%	Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319 Aquatic Chronic 2, H411	
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol	CAS No.: EC No.: 701-263-0 UK-REACH: Index No.:	5 - 10%	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 2, H411	
2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine	CAS No.: 25513-64-8 EC No.: 247-063-2 UK-REACH: Index No.:	2,5 - 5%	Acute Tox. 4, H302 Skin Corr. 1A, H314 Skin Sens. 1A, H317 Eye Dam. 1, H318	
Phenol, 4,4'- (1-methylethylidene)bis-, polymer with 2-(chloromethyl)oxirane, reaction products with 2,2,4(or 2,4,4)-trimethyl-1,6-hexanediamine (chloromethyl)oxirane, reaction products with 2,2,4(or 2,4,4)-trimethyl-1,6-hexanediamine	CAS No.: 111850-23-8 EC No.: UK-REACH: Index No.:	2,5 - 5%	Acute Tox. 4, H302 Skin Corr. 1B, H314 Skin Sens. 1, H317 Eye Dam. 1, H318	[19]
1,4-bis(2,3 epoxypropoxy)butane;butane dioldiglycidyl ether	CAS No.: 2425-79-8 EC No.: 219-371-7 UK-REACH: Index No.: 603-072-00-7	1 - 2,5%	Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Dam. 1, H318 Acute Tox. 4, H332 Aquatic Chronic 3, H412	
2,2'-iminodiethylamine;diethylenetriamine	CAS No.: 111-40-0 EC No.: 203-865-4 UK-REACH: Index No.: 612-058-00-X	1 - 2,5%	Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 Skin Sens. 1, H317 Eye Dam. 1, H318 Acute Tox. 2, H330 STOT SE 3, H335	
4,4'-isopropylidenediphenol; bisphenol A;4,4'-isopropylidenediphenol	CAS No.: 80-05-7 EC No.: 201-245-8 UK-REACH: Index No.: 604-030-00-0	1 - 2,5%	Skin Sens. 1, H317 Eye Dam. 1, H318 STOT SE 3, H335 Repr. 1B, H360 Aquatic Chronic 2, H411	[1], [3], [5]

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

Other information

[1] European occupational exposure limit.
[3] According to UK REACH, Annex XVII, the substance is subject to restrictions.
[5] Substance is included in the Candidate List of substances of very high concern (SVHC).
[19] UVCB = Unknown or variable composition, complex reaction products or of biological materials

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

Inhalation

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

Skin contact

Flush exposed area with water for a long time - at least 30 minutes. It may be necessary to flush for several hours. Use a comfortable water temperature (20-30 °C). Contact Poison Information/doctor/hospital for further advice on follow-up and treatment.
Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners.
If skin irritation occurs: Get medical advice/attention.

Eye contact

If in eyes: Flush eyes with plenty of water or salt water (20-30 °C) for at least 30 minutes and continue until irritation stops. Remove contact lenses. Make sure you flush under the upper and lower eyelids. Seek medical assistance immediately and continue flushing during transport.

Ingestion

In the case of ingestion, contact a doctor immediately. If the person is conscious, give them water. DO NOT try to induce vomiting unless this is recommended by a doctor. Hold head facing down to prevent vomit from returning to the mouth and throat. Prevent shock by keeping the injured person warm and calm. Initiate immediate resuscitation if breathing stops. If unconscious, roll the injured person into recovery position. Call an ambulance.

Burns

Not applicable.

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

Sensitisation: This product contains substances, which may trigger allergic reaction upon dermal contact.
Manifestation of allergic reactions typically takes place within 12-72 hours after exposure.
Tissue-damaging effects: This product contains substances with skin corrosive properties. Inhaled vapour or aerosols may produce adverse effects to lungs, irritations and burns in the respiratory organs as well as coughing. Dermal contact and contact with the eye cause irreversible effects.

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

IF exposed or concerned:
Get immediate medical advice/attention.
If skin irritation or rash occurs: Get medical advice/attention.

Information to medics

Bring this safety data sheet or the label from this product.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Alcohol-resistant foam, carbon dioxide, powder, water mist.
Unsuitable extinguishing media: Waterjets should not be used, since they can spread the fire.

5.2. Special hazards arising from the substance or mixture

Explosion: Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.
Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.
If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:
Sulphur oxides
Nitrogen oxides (NO_x)
Carbon oxides (CO / CO2)
Some metal oxides

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact The National Poisons Information Service (dial 111, 24 h service) in order to obtain further advice.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration.
Avoid direct contact with spilled substances.
Ensure adequate ventilation, especially in confined areas.
Contaminated areas may be slippery.

6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc. In the event of leakage to the surroundings, contact local environmental authorities.

6.3. Methods and material for containment and cleaning up

Limit spillage and collect using granular absorbent or similar materials, and dispose of it in accordance with the regulations on dangerous waste.
Collect spills carefully. Moist the material with water in order to prevent the formation and propagation of dust.
Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

6.4. Reference to other sections

See section 13 “Disposal considerations” on handling of waste.
See section 8 "Exposure controls/personal protection" for protective measures.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces.
It is recommended to install waste collection trays in order to prevent emissions to the waste water system and surrounding environment.
Avoid direct contact with the product.
Smoking, drinking and consumption of food is not allowed in the work area.
See section 8 "Exposure controls/personal protection" for information on personal protection.

7.2. Conditions for safe storage, including any incompatibilities

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.
Avoid the suspension of dust in the air.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Use non-sparking tools.

Recommended storage material

Always store in containers of the same material as the original container.

Storage temperature

Dry, cool and well ventilated
Room temperature 18 to 23°C

Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

barium sulphate
Long term exposure limit (8 hours) (mg/m³): 10(inhalable)/4(respirable)

2,2'-iminodiethylamine;diethylenetriamine
Long term exposure limit (8 hours) (ppm): 1
Long term exposure limit (8 hours) (mg/m³): 4,3
Annotations:
Sk = Can be absorbed through the skin and lead to systemic toxicity.

4,4'-isopropylidenediphenol; bisphenol A;4,4’-isopropylidenediphenol
Long term exposure limit (8 hours) (mg/m³): 2

The Control of Substances Hazardous to Health Regulations 2002. SI 2002/2677 The Stationery Office 2002. EH40/2005 Workplace exposure limits (Fourth Edition 2020).

DNEL

1,4-bis(2,3 epoxypropoxy)butane;butanedioldiglycidyl ether

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - General population	Dermal	3.33 mg/kg bw/day
Long term – Systemic effects - Workers	Dermal	6.66 mg/kg bw/day
Long term – Systemic effects - General population	Inhalation	1.16 mg/m³
Long term – Systemic effects - Workers	Inhalation	4.7 mg/m³
Long term – Systemic effects - General population	Oral	330 µg/kgbw/day

2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - General population	Oral	50 µg/kgbw/day

2,2'-iminodiethylamine;diethylenetriamine

Duration:	Route of exposure:	DNEL:
Long term – Local effects - Workers	Dermal	1.1 mg/cm²
Long term – Systemic effects - General population	Dermal	4.88 mg/kg bw/day
Long term – Systemic effects - Workers	Dermal	11.4 mg/kg bw/day
Short term – Systemic effects - General population	Dermal	4.88 mg/kg bw/day
Long term – Local effects - Workers	Inhalation	870 µg/m³
Long term – Systemic effects - General population	Inhalation	4.6 mg/m³
Long term – Systemic effects - Workers	Inhalation	15.4 mg/m³
Short term – Local effects - Workers	Inhalation	2.6 mg/m³
Short term – Systemic effects - General population	Inhalation	27.5 mg/m³
Short term – Systemic effects - Workers	Inhalation	92.1 mg/m³

4,4'-isopropylidenediphenol; bisphenol A;4,4’-isopropylidenediphenol

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - General population	Dermal	24 µg/kgbw/day
Long term – Systemic effects - Workers	Dermal	66 µg/kgbw/day
Short term – Systemic effects - General population	Dermal	24 µg/kgbw/day
Short term – Systemic effects - Workers	Dermal	66 µg/kgbw/day
Long term – Local effects - General population	Inhalation	1 mg/m³
Long term – Local effects - Workers	Inhalation	2 mg/m³
Long term – Systemic effects - General population	Inhalation	1 mg/m³
Long term – Systemic effects - Workers	Inhalation	2 mg/m³
Short term – Local effects - General population	Inhalation	1 mg/m³
Short term – Local effects - Workers	Inhalation	2 mg/m³
Short term – Systemic effects - General population	Inhalation	1 mg/m³
Short term – Systemic effects - Workers	Inhalation	2 mg/m³
Long term – Systemic effects - General population	Oral	53 µg/kgbw/day
Short term – Systemic effects - General population	Oral	53 µg/kgbw/day

barium sulphate

Duration:	Route of exposure:	DNEL:
Long term – Local effects - Workers	Inhalation	10 mg/m³
Long term – Systemic effects - General population	Inhalation	10 mg/m³
Long term – Systemic effects - Workers	Inhalation	10 mg/m³
Long term – Systemic effects - General population	Oral	13000 mg/kg bw/day

bis-[4-(2,3-epoxipropoxi)phenyl]propane

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - General population	Dermal	89.3 µg/kgbw/day
Long term – Systemic effects - Workers	Dermal	750 µg/kgbw/day
Long term – Systemic effects - General population	Inhalation	870 µg/m³
Long term – Systemic effects - Workers	Inhalation	4.93 mg/m³
Long term – Systemic effects - General population	Oral	500 µg/kgbw/day

PNEC

1,4-bis(2,3 epoxypropoxy)butane;butanedioldiglycidyl ether

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		24 µg/L
Freshwater sediment		84 µg/kg
Intermittent release (freshwater)		240 µg/L
Marine water		2.4 µg/L
Marine water sediment		8.4 µg/kg
Predators		28 µg/kg
Sewage treatment plant		100 mg/L
Soil		2.7 µg/kg

2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		102 µg/L
Freshwater sediment		622 µg/kg
Intermittent release (freshwater)		315 µg/L
Marine water		10.2 µg/L
Marine water sediment		62 µg/kg
Sewage treatment plant		72 mg/L
Soil		10 mg/kg

2,2'-iminodiethylamine;diethylenetriamine

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		560 µg/L
Freshwater sediment		1072 mg/kg
Intermittent release (freshwater)		320 µg/L
Marine water		56 µg/L
Marine water sediment		107.2 mg/kg
Sewage treatment plant		6 mg/L
Soil		7.97 mg/kg

4,4'-isopropylidenediphenol; bisphenol A;4,4’-isopropylidenediphenol

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		22.6 µg/L
Freshwater sediment		1.2 mg/kg
Intermittent release (freshwater)		11 µg/L
Marine water		19.3 µg/L
Marine water sediment		240 µg/kg
Sewage treatment plant		320 mg/L
Soil		3.7 mg/kg

barium sulphate

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		115 µg/L
Freshwater sediment		600.4 mg/kg
Sewage treatment plant		62.2 mg/L
Soil		207.7 mg/kg

bis-[4-(2,3-epoxipropoxi)phenyl]propane

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		6 µg/L
Freshwater sediment		341 µg/kg
Intermittent release (freshwater)		18 µg/L
Intermittent release (marine water)		1.8 µg/L
Marine water		600 ng/L
Marine water sediment		34.1 µg/kg
Predators		11 mg/kg
Sewage treatment plant		10 mg/L
Soil		64.7 µg/kg

8.2. Exposure controls

Compliance with the given occupational exposure limits values should be controlled on a regular basis.

General recommendations

When transferring the materials, dust clouds should be kept at an absolute minimum. Handling should be slow and deliberate. The materials should be transferred from one container to another using a non-sparking, conductive metal scoop.
When mixing the material with other dry ingredients, frictional heat should be avoided. The best type of mixer for a dry mixing operation is one that contains no moving parts, but rather affects a tumbling action, such as a conical blender. Introduction of an inert atmosphere in the blender is highly recommended since dust clouds are generated. All equipment must be well grounded.
Smoking, drinking and consumption of food is not allowed in the work area.

Exposure scenarios

There are no exposure scenarios implemented for this product.

Exposure limits

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

Appropriate technical measures

Do not recirculate outlet air that contain the substances.
Airborne gas and dust concentrations must be kept at a minimum. Provide efficient mechanical ventilation. If not possible use suitable respiratory equipment.
It is recommended that all dust control equipment such as local exhaust ventilation contain an explosion suppression system.
The formation of vapours must be kept at a minimum and below current limit values (see above). Installation of a local exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure eyewash and emergency showers are clearly marked.

Ensure that eyewash stations and safety showers are located within easy reach.
Apply standard precautions during use of the product. Avoid inhalation of vapours.

Hygiene measures

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Always wash hands, forearms and face.

Measures to avoid environmental exposure

Keep damming materials near the workplace. If possible, collect spillage during work.

Individual protection measures, such as personal protective equipment

Generally

Wash contaminated clothing before reuse.
Use only UKCA marked protective equipment.

Respiratory Equipment

Type	Class	Colour	Standards	
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.				

Skin protection

Recommended	Type/Category	Standards	
Wear appropriate protection clothing, e.g. coveralls in polypropylene or working clothes in cotton or polyester.	-	-	

Hand protection

Material	Glove thickness (mm)	Breakthrough time (min.)	Standards	
Nitrile	0.4	> 480	EN374-2, EN374-3, EN388	
Butyl	0.4	> 480	EN374-2, EN374-3, EN388	

Eye protection

Type	Standards	
In the likelihood of direct or incidental exposure, use face protection.	EN166	

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state

Liquid

Colour

Gray

Odour / Odour threshold

Characteristic

pH

Not applicable - product is an article

Density (g/cm³)
1.68 (20 °C)

Kinematic viscosity
81000 mPa.s (20 °C)

Particle characteristics
No data available

Phase changes

Melting point/Freezing point (°C)
Not applicable - product is an article

Softening point/range (waxes and pastes) (°C)
Does not apply to liquids.

Boiling point (°C)
Not applicable - product is an article

Vapour pressure
0.628 mbar (20 °C)

Relative vapour density
Not applicable - product is an article

Decomposition temperature (°C)
Not applicable - product is an article

Data on fire and explosion hazards

Flash point (°C)
102

Flammability (°C)
Not applicable - product is an article

Auto-ignition temperature (°C)
260

Lower and upper explosion limit (% v/v)
1.2 - 16.1

Solubility

Solubility in water
Insoluble

n-octanol/water coefficient
No data available

Solubility in fat (g/L)
No data available

9.2. Other information

Formation of explosible dust/air mixtures
Yes

Evaporation rate (n-butylacetate = 100)
Not applicable - product is an article

VOC (g/L)
21

Other physical and chemical parameters
No data available.

Oxidizing properties
Not applicable - product is an article

SECTION 10: Stability and reactivity

10.1. Reactivity
No data available.

10.2. Chemical stability
The product is stable under the conditions, noted in section 7 “Handling and storage”.

10.3. Possibility of hazardous reactions
None known.

10.4. Conditions to avoid

Avoid the suspension of dust in the air.
Extremes of temperature

10.5. Incompatible materials
Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

10.6. Hazardous decomposition products
Thermal decomposition may produce corrosive vapours.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity
Based on available data, the classification criteria are not met.

Skin corrosion/irritation
Causes severe skin burns and eye damage.

Serious eye damage/irritation
Causes serious eye damage.

Respiratory sensitisation
Based on available data, the classification criteria are not met.

Skin sensitisation
May cause an allergic skin reaction.

Germ cell mutagenicity
Based on available data, the classification criteria are not met.

Carcinogenicity
Based on available data, the classification criteria are not met.

Reproductive toxicity
May damage fertility or the unborn child.

STOT-single exposure
Based on available data, the classification criteria are not met.

STOT-repeated exposure
Based on available data, the classification criteria are not met.

Aspiration hazard
Based on available data, the classification criteria are not met.

11.2. Information on other hazards

Long term effects
Reproductive toxicity: This product contains teratogenic substances, which may produce anomalies and/or developmental defects to the human offspring. Adverse effects include: death, growth retardation, congenital disorders, delayed mental development, and functional disorders. This product contains reprotoxic substances, which may harm the reproductive capacity. Adverse effects include: sterility, effects on the sexual function, lowered effective fertility and dysfunctional menstrual cycle.
Tissue-damaging effects: This product contains substances with skin corrosive properties. Inhaled vapour or aerosols may produce adverse effects to lungs, irritations and burns in the respiratory organs as well as coughing. Dermal contact and contact with the eye cause irreversible effects.

Endocrine disrupting properties
4,4'-isopropylidenediphenol; bisphenol A;4,4’-isopropylidenediphenol is identified as endocrine disruptor by EU (List I)

Other information
bis-[4-(2,3-epoxipropoxi)phenyl]propane has been classified by IARC as a group 3 carcinogen.

SECTION 12: Ecological information

12.1. Toxicity

Product/substance	barium sulphate
Species:	Aquatic invertebrates
Duration:	48 hours
Test:	EC50
Result:	14,5 mg/L ·

Toxic to aquatic life with long lasting effects.

12.2. Persistence and degradability
No data available.

12.3. Bioaccumulative potential
No data available.

12.4. Mobility in soil
No data available.

12.5. Results of PBT and vPvB assessment
This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

12.6. Endocrine disrupting properties
4,4'-isopropylidenediphenol; bisphenol A;4,4’-isopropylidenediphenol is identified as endocrine disruptor by EU (List I)

12.7. Other adverse effects
This product contains substances that are toxic to the environment. May result in adverse effects to aquatic organisms.
This product contains substances, which may cause adverse long-term effects to the aquatic environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Product is covered by the regulations on hazardous waste.
HP 8 – Corrosive
HP 13 – Sensitising
HP 14 – Ecotoxic
Dispose of contents/container to an approved waste disposal plant.
Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended in UK law.

EWC code
08 01 11* Waste paint and varnish containing organic solvents or other dangerous substances

Contaminated packing
Packaging containing residues of the product must be disposed of similarly to the product.

SECTION 14: Transport information

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other information:
ADR	UN1760	CORROSIVE LIQUID, N.O.S. (2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine, 4,4'-isopropylidenediphenol; bisphenol A;4,4’-isopropylidenediphenol)	Transport hazard class: 8 Label: 8 Classification code: C9 	III	Yes	Limited quantities: 5 L Tunnel restriction code: (E) See below for additional information.
IMDG	UN1760	CORROSIVE LIQUID, N.O.S. (2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine, 4,4'-isopropylidenediphenol; bisphenol A;4,4’-isopropylidenediphenol)	Transport hazard class: 8 Label: 8 Classification code: C9 	III	Yes	Limited quantities: 5 L EmS: F-A S-B See below for additional information.
IATA	UN1760	CORROSIVE LIQUID, N.O.S. (2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine, 4,4'-isopropylidenediphenol; bisphenol A;4,4’-isopropylidenediphenol)	Transport hazard class: 8 Label: 8 Classification code: C9	III	Yes	See below for additional information.

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other information:
						

* Packing group
** Environmental hazards

Additional information

ADR / See Table A, Section 3.2.1 for any information on special provisions, requirements, or warnings in connection with transport. See section 5.4.3, for instructions in writing regarding mitigation of damages in relation to incidents or accidents during transport.
IMDG / See section 3.2.1, for any information on special provisions, requirements, or warnings in connection with transport.
IATA / See Table 4.2 for any information on special provisions, requirements, or warnings in connection with transport.
This product is within scope of the regulations of transport of dangerous goods.

14.6. Special precautions for user

Not applicable.

14.7. Maritime transport in bulk according to IMO instruments

No data available.

SECTION 15: Regulatory information

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

Restrictions for application

Restricted to professional users.
People under the age of 18 shall not be exposed to this product.
Pregnant women and women breastfeeding must not be exposed to this product. The risk, and possible technical precautions or design of the workplace needed to eliminate exposure, must be considered.

Demands for specific education

No specific requirements.

SEVESO - Categories / dangerous substances

E2 - ENVIRONMENTAL HAZARDS, Qualifying quantity (lower-tier): 200 tonnes / (upper-tier): 500 tonnes

REACH, Annex XVII

4,4'-isopropylidenediphenol; bisphenol A;4,4’-isopropylidenediphenol is subject to restrictions, UK-REACH annex XVII (entry 66).

Additional information

Not applicable.

Sources

The Management of Health and Safety at Work Regulations 1999.
The Health and Safety at Work etc. Act 1974 Regulations 2013.
Control of Major Accident Hazards (COMAH) Regulations 2015.
2012 No. 1715 ENVIRONMENTAL PROTECTION: The Volatile Organic Compounds in Paints, Varnishes and Vehicle Refinishing Products Regulations 2012.
Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended in UK law.
Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP) as retained and amended in UK law.
Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) as retained and amended in UK law.

15.2. Chemical safety assessment

No

SECTION 16: Other information

Full text of H-phrases as mentioned in section 3

H302, Harmful if swallowed.
H312, Harmful in contact with skin.
H314, Causes severe skin burns and eye damage.
H315, Causes skin irritation.
H317, May cause an allergic skin reaction.
H318, Causes serious eye damage.
H319, Causes serious eye irritation.
H330, Fatal if inhaled.
H332, Harmful if inhaled.
H335, May cause respiratory irritation.
H360, May damage fertility or the unborn child.
H411, Toxic to aquatic life with long lasting effects.
H412, Harmful to aquatic life with long lasting effects.

Abbreviations and acronyms

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
CAS = Chemical Abstracts Service
CE = Conformité Européenne (European conformity)
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
CSA = Chemical Safety Assessment
CSR = Chemical Safety Report
DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level
EINECS = European Inventory of Existing Commercial chemical Substances
ES = Exposure Scenario
EUH statement = CLP-specific Hazard statement
EWC = European Waste Catalogue
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IARC = International Agency for Research on Cancer (IARC)
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
OECD = Organisation for Economic Co-operation and Development
PBT = Persistent, Bioaccumulative and Toxic
PNEC = Predicted No Effect Concentration
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
RRN = REACH Registration Number
SCL = A specific concentration limit
SVHC = Substances of Very High Concern
STOT-RE = Specific Target Organ Toxicity - Repeated Exposure
STOT-SE = Specific Target Organ Toxicity - Single Exposure
TWA = Time weighted average
UN = United Nations
UVBC = Unknown or variable composition, complex reaction products or of biological materials
VOC = Volatile Organic Compound
vPvB = Very Persistent and Very Bioaccumulative

Additional information

The classification of the substance/mixture in regard of health hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law.
The classification of the substance/mixture in regard of environmental hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law.

The safety data sheet is validated by

S. Grade

Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a blue

triangle.
The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.
It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.
Country-language: GB-en