



Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II and Regulation (EC) No. 1272/2008 (CLP)

SAFETY DATA SHEET

NR-330 Flux 10 Ltrs

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

1.1 Product identifier

Product name : NR-330 Flux 10 Ltrs
Product code : 29736.0010
Product description : Not available.
Product type : Liquid.

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

Restricted to professional users.

Material uses : soldering

1.3 Details of the supplier of the safety data sheet

Alpha, Alent plc
Forsyth Road
Sheerwater
Woking
Surrey
England
GU21 5RZ
Tel: +44(0)1483 758400
Fax: +44(0)1483 728837

Manufacturer : Alpha, Alent plc
Koenendelseweg 29
5222 BG
's-Hertogenbosch
The Netherlands
Tel: +31 73 6280 111
Fax: +31 73 6219 283

Contact person : europeanregulatory@alent.com

Emergency phone: +44 1483 758400

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

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

Eye Dam. 1, H318

Repr. 1B, H360FD (Fertility and Unborn child)

Ingredients of unknown toxicity : Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 94.6%

Ingredients of unknown ecotoxicity : Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 94.6%

Classification according to Directive 1999/45/EC [DPD]

Europe

The product is classified as dangerous according to Directive 1999/45/EC and its amendments.

Date of issue/Date of revision : 08.05.2015.

1/18

NR-330 Flux 10 Ltrs

SECTION 2: Hazards identification**Classification** : Repr. Cat. 2; R61**Human health hazards** : May cause harm to the unborn child.

See Section 16 for the full text of the R phrases or H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements**Hazard pictograms** :**Signal word** : Danger**Hazard statements** : Causes serious eye damage.
May damage fertility. May damage the unborn child.**Precautionary statements****Prevention** : Obtain special instructions before use. Wear protective gloves: < 1 hour (breakthrough time): disposable vinyl. Wear eye or face protection: Recommended: safety glasses with side-shields. Wear protective clothing: Recommended: overall.**Response** : IF exposed or concerned: Get medical attention. IF IN EYES: Immediately call a POISON CENTER or physician.**Storage** : Store locked up.**Disposal** : Dispose of contents and container in accordance with all local, regional, national and international regulations.**Hazardous ingredients** : succinic acid
bis(2-(2-methoxyethoxy)ethyl) ether**Supplemental label elements** : Contains glutaral. May produce an allergic reaction.**2.3 Other hazards****Other hazards which do not result in classification** : None known.**SECTION 3: Composition/information on ingredients****Substance/mixture** : Mixture

Product/ingredient name	Identifiers	%	<u>Classification</u>		Type
			67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	
Europe succinic acid	REACH #: 01-2119896114-34 EC: 203-740-4 CAS: 110-15-6	≥3 - <5	Xi; R41	Eye Dam. 1, H318	[1]
bis(2-(2-methoxyethoxy)ethyl) ether	REACH #: 01-2119958965-16 EC: 205-594-7 CAS: 143-24-8	≥1 - <3	Repr. Cat. 2; R61 Repr. Cat. 3; R62 See Section 16 for the full text of the R-phrases declared above.	Repr. 1B, H360FD (Fertility and Unborn child) See Section 16 for the full text of the H statements declared above.	[1]
Austria					

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SECTION 3: Composition/information on ingredients

 Belgium					
 succinic acid	REACH #: 01-2119896114-34 EC: 203-740-4 CAS: 110-15-6	≥3 - <5	Xi; R41	Eye Dam. 1, H318	[1]
bis(2-(2-methoxyethoxy)ethyl) ether	REACH #: 01-2119958965-16 EC: 205-594-7 CAS: 143-24-8	≥1 - <3	Repr. Cat. 2; R61 Repr. Cat. 3; R62	Repr. 1B, H360FD (Fertility and Unborn child)	[1]
 Belgium					
 succinic acid	REACH #: 01-2119896114-34 EC: 203-740-4 CAS: 110-15-6	≥3 - <5	Xi; R41	Eye Dam. 1, H318	[1]
bis(2-(2-methoxyethoxy)ethyl) ether	REACH #: 01-2119958965-16 EC: 205-594-7 CAS: 143-24-8	≥1 - <3	Repr. Cat. 2; R61 Repr. Cat. 3; R62	Repr. 1B, H360FD (Fertility and Unborn child)	[1]
 Bulgaria					
 succinic acid	REACH #: 01-2119896114-34 EC: 203-740-4 CAS: 110-15-6	≥3 - <5	Xi; R41	Eye Dam. 1, H318	[1]
bis(2-(2-methoxyethoxy)ethyl) ether	REACH #: 01-2119958965-16 EC: 205-594-7 CAS: 143-24-8	≥1 - <3	Repr. Cat. 2; R61 Repr. Cat. 3; R62	Repr. 1B, H360FD (Fertility and Unborn child)	[1]
 Croatia					
 succinic acid	REACH #: 01-2119896114-34 EC: 203-740-4 CAS: 110-15-6	≥3 - <5	Xi; R41	Eye Dam. 1, H318	[1]
bis(2-(2-methoxyethoxy)ethyl) ether	REACH #: 01-2119958965-16 EC: 205-594-7 CAS: 143-24-8	≥1 - <3	Repr. Cat. 2; R61 Repr. Cat. 3; R62	Repr. 1B, H360FD (Fertility and Unborn child)	[1]
 Czech Republic					
 succinic acid	REACH #: 01-2119896114-34 EC: 203-740-4 CAS: 110-15-6	≥3 - <5	Xi; R41	Eye Dam. 1, H318	[1]
bis(2-(2-methoxyethoxy)ethyl) ether	REACH #: 01-2119958965-16 EC: 205-594-7 CAS: 143-24-8	≥1 - <3	Repr. Cat. 2; R61 Repr. Cat. 3; R62	Repr. 1B, H360FD (Fertility and Unborn child)	[1]
 Denmark					
 succinic acid	REACH #: 01-2119896114-34 EC: 203-740-4 CAS: 110-15-6	≥3 - <5	Xi; R41	Eye Dam. 1, H318	[1]
bis(2-(2-methoxyethoxy)ethyl) ether	REACH #: 01-2119958965-16 EC: 205-594-7 CAS: 143-24-8	≥1 - <3	Repr. Cat. 2; R61 Repr. Cat. 3; R62	Repr. 1B, H360FD (Fertility and Unborn child)	[1]
 Estonia					

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SECTION 3: Composition/information on ingredients

 Slovakia	succinic acid	REACH #: 01-2119896114-34 EC: 203-740-4 CAS: 110-15-6	≥3 - <5	Xi; R41	Eye Dam. 1, H318	[1]
	bis(2-(2-methoxyethoxy)ethyl) ether	REACH #: 01-2119958965-16 EC: 205-594-7 CAS: 143-24-8	≥1 - <3	Repr. Cat. 2; R61 Repr. Cat. 3; R62	Repr. 1B, H360FD (Fertility and Unborn child)	[1]
Finland	 Finland					
	succinic acid	REACH #: 01-2119896114-34 EC: 203-740-4 CAS: 110-15-6	≥3 - <5	Xi; R41	Eye Dam. 1, H318	[1]
	bis(2-(2-methoxyethoxy)ethyl) ether	REACH #: 01-2119958965-16 EC: 205-594-7 CAS: 143-24-8	≥1 - <3	Repr. Cat. 2; R61 Repr. Cat. 3; R62	Repr. 1B, H360FD (Fertility and Unborn child)	[1]
France	 France					
	succinic acid	REACH #: 01-2119896114-34 EC: 203-740-4 CAS: 110-15-6	≥3 - <5	Xi; R41	Eye Dam. 1, H318	[1]
	bis(2-(2-methoxyethoxy)ethyl) ether	REACH #: 01-2119958965-16 EC: 205-594-7 CAS: 143-24-8	≥1 - <3	Repr. Cat. 2; R61 Repr. Cat. 3; R62	Repr. 1B, H360FD (Fertility and Unborn child)	[1]
Germany	 Germany					
	succinic acid	REACH #: 01-2119896114-34 EC: 203-740-4 CAS: 110-15-6	≥3 - <5	Xi; R41	Eye Dam. 1, H318	[1]
	bis(2-(2-methoxyethoxy)ethyl) ether	REACH #: 01-2119958965-16 EC: 205-594-7 CAS: 143-24-8	≥1 - <3	Repr. Cat. 2; R61 Repr. Cat. 3; R62	Repr. 1B, H360FD (Fertility and Unborn child)	[1]
Greece	 Greece					
	succinic acid	REACH #: 01-2119896114-34 EC: 203-740-4 CAS: 110-15-6	≥3 - <5	Xi; R41	Eye Dam. 1, H318	[1]
	bis(2-(2-methoxyethoxy)ethyl) ether	REACH #: 01-2119958965-16 EC: 205-594-7 CAS: 143-24-8	≥1 - <3	Repr. Cat. 2; R61 Repr. Cat. 3; R62	Repr. 1B, H360FD (Fertility and Unborn child)	[1]
Hungary	 Hungary					
	succinic acid	REACH #: 01-2119896114-34 EC: 203-740-4 CAS: 110-15-6	≥3 - <5	Xi; R41	Eye Dam. 1, H318	[1]
	bis(2-(2-methoxyethoxy)ethyl) ether	REACH #: 01-2119958965-16 EC: 205-594-7 CAS: 143-24-8	≥1 - <3	Repr. Cat. 2; R61 Repr. Cat. 3; R62	Repr. 1B, H360FD (Fertility and Unborn child)	[1]
Ireland	 Ireland					

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SECTION 3: Composition/information on ingredients

 Slovakia	succinic acid	REACH #: 01-2119896114-34 EC: 203-740-4 CAS: 110-15-6	≥3 - <5	Xi; R41	Eye Dam. 1, H318	[1]
	bis(2-(2-methoxyethoxy)ethyl) ether	REACH #: 01-2119958965-16 EC: 205-594-7 CAS: 143-24-8	≥1 - <3	Repr. Cat. 2; R61 Repr. Cat. 3; R62	Repr. 1B, H360FD (Fertility and Unborn child)	[1]
Italy						
 Italy	succinic acid	REACH #: 01-2119896114-34 EC: 203-740-4 CAS: 110-15-6	≥3 - <5	Xi; R41	Eye Dam. 1, H318	[1]
	bis(2-(2-methoxyethoxy)ethyl) ether	REACH #: 01-2119958965-16 EC: 205-594-7 CAS: 143-24-8	≥1 - <3	Repr. Cat. 2; R61 Repr. Cat. 3; R62	Repr. 1B, H360FD (Fertility and Unborn child)	[1]
Latvia						
 Latvia	succinic acid	REACH #: 01-2119896114-34 EC: 203-740-4 CAS: 110-15-6	≥3 - <5	Xi; R41	Eye Dam. 1, H318	[1]
	bis(2-(2-methoxyethoxy)ethyl) ether	REACH #: 01-2119958965-16 EC: 205-594-7 CAS: 143-24-8	≥1 - <3	Repr. Cat. 2; R61 Repr. Cat. 3; R62	Repr. 1B, H360FD (Fertility and Unborn child)	[1]
Lithuania						
 Lithuania	succinic acid	REACH #: 01-2119896114-34 EC: 203-740-4 CAS: 110-15-6	≥3 - <5	Xi; R41	Eye Dam. 1, H318	[1]
	bis(2-(2-methoxyethoxy)ethyl) ether	REACH #: 01-2119958965-16 EC: 205-594-7 CAS: 143-24-8	≥1 - <3	Repr. Cat. 2; R61 Repr. Cat. 3; R62	Repr. 1B, H360FD (Fertility and Unborn child)	[1]
Netherlands						
 Netherlands	succinic acid	REACH #: 01-2119896114-34 EC: 203-740-4 CAS: 110-15-6	≥3 - <5	Xi; R41	Eye Dam. 1, H318	[1]
	bis(2-(2-methoxyethoxy)ethyl) ether	REACH #: 01-2119958965-16 EC: 205-594-7 CAS: 143-24-8	≥1 - <3	Repr. Cat. 2; R61 Repr. Cat. 3; R62	Repr. 1B, H360FD (Fertility and Unborn child)	[1]
Norway						
 Norway	succinic acid	REACH #: 01-2119896114-34 EC: 203-740-4 CAS: 110-15-6	≥3 - <5	Xi; R41	Eye Dam. 1, H318	[1]
	bis(2-(2-methoxyethoxy)ethyl) ether	REACH #: 01-2119958965-16 EC: 205-594-7 CAS: 143-24-8	≥1 - <3	Repr. Cat. 2; R61 Repr. Cat. 3; R62	Repr. 1B, H360FD (Fertility and Unborn child)	[1]
Poland						

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 Portugal					
succinic acid	REACH #: 01-2119896114-34 EC: 203-740-4 CAS: 110-15-6	≥3 - <5	Xi; R41	Eye Dam. 1, H318	[1]
bis(2-(2-methoxyethoxy)ethyl) ether	REACH #: 01-2119958965-16 EC: 205-594-7 CAS: 143-24-8	≥1 - <3	Repr. Cat. 2; R61 Repr. Cat. 3; R62	Repr. 1B, H360FD (Fertility and Unborn child)	[1]
 Portugal					
succinic acid	REACH #: 01-2119896114-34 EC: 203-740-4 CAS: 110-15-6	≥3 - <5	Xi; R41	Eye Dam. 1, H318	[1]
bis(2-(2-methoxyethoxy)ethyl) ether	REACH #: 01-2119958965-16 EC: 205-594-7 CAS: 143-24-8	≥1 - <3	Repr. Cat. 2; R61 Repr. Cat. 3; R62	Repr. 1B, H360FD (Fertility and Unborn child)	[1]
 Romania					
succinic acid	REACH #: 01-2119896114-34 EC: 203-740-4 CAS: 110-15-6	≥3 - <5	Xi; R41	Eye Dam. 1, H318	[1]
bis(2-(2-methoxyethoxy)ethyl) ether	REACH #: 01-2119958965-16 EC: 205-594-7 CAS: 143-24-8	≥1 - <3	Repr. Cat. 2; R61 Repr. Cat. 3; R62	Repr. 1B, H360FD (Fertility and Unborn child)	[1]
 Slovakia					
succinic acid	REACH #: 01-2119896114-34 EC: 203-740-4 CAS: 110-15-6	≥3 - <5	Xi; R41	Eye Dam. 1, H318	[1]
bis(2-(2-methoxyethoxy)ethyl) ether	REACH #: 01-2119958965-16 EC: 205-594-7 CAS: 143-24-8	≥1 - <3	Repr. Cat. 2; R61 Repr. Cat. 3; R62	Repr. 1B, H360FD (Fertility and Unborn child)	[1]
 Slovenia					
succinic acid	REACH #: 01-2119896114-34 EC: 203-740-4 CAS: 110-15-6	≥3 - <5	Xi; R41	Eye Dam. 1, H318	[1]
bis(2-(2-methoxyethoxy)ethyl) ether	REACH #: 01-2119958965-16 EC: 205-594-7 CAS: 143-24-8	≥1 - <3	Repr. Cat. 2; R61 Repr. Cat. 3; R62	Repr. 1B, H360FD (Fertility and Unborn child)	[1]
 Spain					
succinic acid	REACH #: 01-2119896114-34 EC: 203-740-4 CAS: 110-15-6	≥3 - <5	Xi; R41	Eye Dam. 1, H318	[1]
bis(2-(2-methoxyethoxy)ethyl) ether	REACH #: 01-2119958965-16 EC: 205-594-7 CAS: 143-24-8	≥1 - <3	Repr. Cat. 2; R61 Repr. Cat. 3; R62	Repr. 1B, H360FD (Fertility and Unborn child)	[1]
 Sweden					

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SECTION 3: Composition/information on ingredients

 succinic acid	REACH #: 01-2119896114-34 EC: 203-740-4 CAS: 110-15-6	≥3 - <5	Xi; R41	Eye Dam. 1, H318	[1]
bis(2-(2-methoxyethoxy)ethyl) ether	REACH #: 01-2119958965-16 EC: 205-594-7 CAS: 143-24-8	≥1 - <3	Repr. Cat. 2; R61 Repr. Cat. 3; R62	Repr. 1B, H360FD (Fertility and Unborn child)	[1]
Switzerland					
 succinic acid	REACH #: 01-2119896114-34 EC: 203-740-4 CAS: 110-15-6	≥3 - <5	Xi; R41	Eye Dam. 1, H318	[1]
bis(2-(2-methoxyethoxy)ethyl) ether	REACH #: 01-2119958965-16 EC: 205-594-7 CAS: 143-24-8	≥1 - <3	Repr. Cat. 2; R61 Repr. Cat. 3; R62	Repr. 1B, H360FD (Fertility and Unborn child)	[1]
Turkey					
 succinic acid	REACH #: 01-2119896114-34 EC: 203-740-4 CAS: 110-15-6	≥3 - <5	Xi; R41	Eye Dam. 1, H318	[1]
bis(2-(2-methoxyethoxy)ethyl) ether	REACH #: 01-2119958965-16 EC: 205-594-7 CAS: 143-24-8	≥1 - <3	Repr. Cat. 2; R61 Repr. Cat. 3; R62	Repr. 1B, H360FD (Fertility and Unborn child)	[1]
United Kingdom (UK)					
 succinic acid	REACH #: 01-2119896114-34 EC: 203-740-4 CAS: 110-15-6	≥3 - <5	Xi; R41	Eye Dam. 1, H318	[1]
bis(2-(2-methoxyethoxy)ethyl) ether	REACH #: 01-2119958965-16 EC: 205-594-7 CAS: 143-24-8	≥1 - <3	Repr. Cat. 2; R61 Repr. Cat. 3; R62	Repr. 1B, H360FD (Fertility and Unborn child)	[1]

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Type

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact :  Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.

SECTION 4: First aid measures

- Inhalation** : Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Skin contact** : Get medical attention immediately. Call a poison center or physician. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

- Eye contact** : Causes serious eye damage.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.

Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:
pain
watering
redness
- Inhalation** : Adverse symptoms may include the following:
reduced foetal weight
increase in foetal deaths
skeletal malformations
- Skin contact** : Adverse symptoms may include the following:
pain or irritation
redness
blistering may occur
reduced foetal weight
increase in foetal deaths
skeletal malformations
- Ingestion** : Adverse symptoms may include the following:
stomach pains
reduced foetal weight
increase in foetal deaths
skeletal malformations

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SECTION 4: First aid measures

4.3 Indication of any immediate medical attention and special treatment needed

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific treatments** : No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.
- Unsuitable extinguishing media** : None known.

5.2 Special hazards arising from the substance or mixture

- Hazards from the substance or mixture** : In a fire or if heated, a pressure increase will occur and the container may burst.
- Hazardous combustion products** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide

5.3 Advice for firefighters

- Special precautions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** :  No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For emergency responders** :  specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions

- : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and material for containment and cleaning up

- Small spill** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.

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SECTION 6: Accidental release measures

- 6.4 Reference to other sections** : See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

- Store between the following temperatures: 5 to 30°C (41 to 86°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

7.3 Specific end use(s)

- Recommendations** : Not available.
- Industrial sector specific solutions** : Not available.

SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

8.1 Control parameters**Occupational exposure limits**

Product/ingredient name	Exposure limit values
Europe No exposure limit value known.	
Austria glutaral	GKV_MAK (Austria, 12/2011). Skin sensitiser. CEIL: 0.2 mg/m ³ 15 minutes. CEIL: 0.05 ppm 15 minutes. TWA: 0.2 mg/m ³ 8 hours. TWA: 0.05 ppm 8 hours.
Belgium glutaral	Lijst Grenswaarden / Valeurs Limites (Belgium, 4/2014). M: 0.21 mg/m ³ M: 0.05 ppm
Bulgaria	

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SECTION 8: Exposure controls/personal protection

No exposure limit value known.

Croatia

No exposure limit value known.

Czech Republic

No exposure limit value known.

Denmark

No exposure limit value known.

Estonia

No exposure limit value known.

Finland

glutaral

Työterveyslaitos, Sosiaali- ja terveysministeriö (Finland, 3/2014).

CEIL: 0.42 mg/m³

CEIL: 0.1 ppm

France

No exposure limit value known.

Germany

No exposure limit value known.

Greece

No exposure limit value known.

Hungary

No exposure limit value known.

Ireland

glutaral

NAOSH (Ireland, 12/2011). Skin sensitiser.

OELV-15min: 0.2 mg/m³ 15 minutes.

OELV-15min: 0.05 ppm 15 minutes.

Italy

No exposure limit value known.

Latvia

glutaral

Ministru kabineta - AER (Latvia, 2/2011).

TWA: 5 mg/m³ 8 hours.

Lithuania

glutaral

Lietuvos Higienos Normos HN 23 (Lithuania, 10/2007). Skin sensitiser.

CEIL: 0.8 mg/m³

CEIL: 0.2 ppm

Netherlands

No exposure limit value known.

Norway

glutaral

FOR-2011-12-06-1358 (Norway, 1/2013). Skin sensitiser.

CEIL: 0.8 mg/m³

CEIL: 0.2 ppm

Poland

glutaral

Rozporządzenie Ministra Pracy i Polityki Społecznej (Dz.U. 2014 poz. 817) (Poland, 6/2014).

STEL: 0.6 mg/m³ 15 minutes.

TWA: 0.4 mg/m³ 8 hours.

Portugal

glutaral

Instituto Português da Qualidade (Portugal, 3/2007). Skin sensitiser.

CEIL: 0.05 ppm

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SECTION 8: Exposure controls/personal protection

Romania

No exposure limit value known.

Slovakia

No exposure limit value known.

Slovenia

No exposure limit value known.

Spain

No exposure limit value known.

Sweden

glutaral

AFS 2011:18 (Sweden, 12/2011). Skin sensitiser.

CEIL: 0.4 mg/m³ 15 minutes.

CEIL: 0.1 ppm 15 minutes.

Switzerland

No exposure limit value known.

Turkey

glutaral

NIOSH REL (United States, 10/2013).

CEIL: 0.8 mg/m³

CEIL: 0.2 ppm

United Kingdom (UK)

No exposure limit value known.

Recommended monitoring procedures : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

Derived effect levels

No DELs available.

Predicted effect concentrations

No PECs available.

8.2 Exposure controls

Appropriate engineering controls

: If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Individual protection measures

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead. Recommended: safety glasses with side-shields

SECTION 8: Exposure controls/personal protectionSkin protection

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. < 1 hour (breakthrough time): disposable vinyl

Body protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: overall

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Recommended: None assigned.

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**Appearance

Physical state	: Liquid.
Colour	: Colourless.
Odour	: Faint odour.
pH	: 3 [Conc. (% w/w): 5%]
Melting point/freezing point	: 0°C
Initial boiling point and boiling range	: 100°C
Flash point	: [Product does not sustain combustion.]
Upper/lower flammability or explosive limits	: Not available.
Relative density	: 1.013
Solubility(ies)	: Easily soluble in the following materials: cold water and hot water.
Partition coefficient: n-octanol/water	: Not available.
Auto-ignition temperature	: Not available.
VOC content	: 0 % (w/w) [ISO % 11890-2]

9.2 Other information

No additional information.

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SECTION 10: Stability and reactivity

- 10.1 Reactivity** : No specific test data related to reactivity available for this product or its ingredients.
- 10.2 Chemical stability** : The product is stable.
- 10.3 Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.
- 10.4 Conditions to avoid** : No specific data.
- 10.5 Incompatible materials** : No specific data.
- 10.6 Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information**11.1 Information on toxicological effects**Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
succinic acid	LD50 Oral	Rat	2260 mg/kg	-
bis(2-(2-methoxyethoxy)ethyl) ether	LD50 Oral	Rat	5140 mg/kg	-

Conclusion/Summary : Not available.

Acute toxicity estimates

Not available.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
succinic acid	Eyes - Severe irritant	Rabbit	-	750 Micrograms	-

Conclusion/Summary : Not available.

Sensitiser

Conclusion/Summary : Not available.

Mutagenicity

Conclusion/Summary : Not available.

Carcinogenicity

Conclusion/Summary : Not available.

Reproductive toxicity

Conclusion/Summary : Not available.

Teratogenicity

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure : Not available.

Potential acute health effects

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SECTION 11: Toxicological information

- Inhalation** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.
- Skin contact** : No known significant effects or critical hazards.
- Eye contact** : Causes serious eye damage.

Symptoms related to the physical, chemical and toxicological characteristics

- Inhalation** : Adverse symptoms may include the following:
reduced foetal weight
increase in foetal deaths
skeletal malformations
- Ingestion** : Adverse symptoms may include the following:
stomach pains
reduced foetal weight
increase in foetal deaths
skeletal malformations
- Skin contact** : Adverse symptoms may include the following:
pain or irritation
redness
blistering may occur
reduced foetal weight
increase in foetal deaths
skeletal malformations
- Eye contact** : Adverse symptoms may include the following:
pain
watering
redness

Delayed and immediate effects and also chronic effects from short and long term exposure**Short term exposure**

- Potential immediate effects** : Not available.
- Potential delayed effects** : Not available.

Long term exposure

- Potential immediate effects** : Not available.
- Potential delayed effects** : Not available.

Potential chronic health effects

Not available.

- Conclusion/Summary** : Not available.
- General** : No known significant effects or critical hazards.
- Carcinogenicity** : No known significant effects or critical hazards.
- Mutagenicity** : No known significant effects or critical hazards.
- Teratogenicity** : May damage the unborn child.
- Developmental effects** : No known significant effects or critical hazards.
- Fertility effects** : May damage fertility.
- Other information** : Not available.

SECTION 12: Ecological information**12.1 Toxicity**

Product/ingredient name	Result	Species	Exposure
Succinic acid	Acute EC50 374200 to 400000 µg/l Fresh water	Daphnia - Daphnia magna - Larvae	48 hours

- Conclusion/Summary** : Not available.

12.2 Persistence and degradability

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SECTION 12: Ecological information**Conclusion/Summary** : Not available.**12.3 Bioaccumulative potential**

Product/ingredient name	LogP _{ow}	BCF	Potential
succinic acid	-0.59	-	low

12.4 Mobility in soil**Soil/water partition coefficient (K_{oc})** : Not available.**Mobility** : Not available.**12.5 Results of PBT and vPvB assessment****PBT** : Not applicable.**vPvB** : Not applicable.**12.6 Other adverse effects** : No known significant effects or critical hazards.**SECTION 13: Disposal considerations**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods**Product**

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Hazardous waste : Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 91/689/EEC.

European waste catalogue (EWC)

Waste code	Waste designation
16 03 06	organic wastes other than those mentioned in 16 03 05

Packaging

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special precautions : This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	IMDG
14.1 UN number	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-

Date of issue/Date of revision : 08.05.2015.**16/18**

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SECTION 14: Transport information

14.3 Transport hazard class(es)	-	-
14.4 Packing group	-	-

SECTION 15: Regulatory information

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

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions : Restricted to professional users.
on the manufacture,
placing on the market
and use of certain
dangerous substances,
mixtures and articles

Other EU regulations

Europe inventory : Not determined.

Product/ingredient name	Carcinogenic effects	Mutagenic effects	Developmental effects	Fertility effects
Bis(2-(2-methoxyethoxy) ethyl) ether	-	-	Repr. 1B, H360D (Unborn child)	Repr. 1B, H360F (Fertility)

National regulations

[Austria](#)

[Belgium](#)

[Bulgaria](#)

[Croatia](#)

[Czech Republic](#)

[Denmark](#)

[Estonia](#)

[Finland](#)

[France](#)

[Germany](#)

Hazard class for water :  Appendix No. 4

[Greece](#)

[Hungary](#)

[Ireland](#)

[Italy](#)

[Latvia](#)

[Lithuania](#)

[Netherlands](#)

[Norway](#)

[Poland](#)

[Portugal](#)

[Romania](#)

[Slovakia](#)

[Slovenia](#)

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SECTION 15: Regulatory information

[Spain](#)

[Sweden](#)

[Switzerland](#)

[Turkey](#)

[United Kingdom \(UK\)](#)

15.2 Chemical Safety Assessment : This product contains substances for which Chemical Safety Assessments are still required.

SECTION 16: Other information

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Date of issue/ Date of revision : 08.05.2015.

Date of previous issue : 11.04.2014.

Version : 2

[Notice to reader](#)

▮ Indicates information that has changed from previously issued version.

Abbreviations and acronyms : ATE = Acute Toxicity Estimate
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
DNEL = Derived No Effect Level
EUH statement = CLP-specific Hazard statement
PNEC = Predicted No Effect Concentration
RRN = REACH Registration Number

[Procedure used to derive the classification according to Regulation \(EC\) No. 1272/2008 \[CLP/GHS\]](#)

	Classification	Justification
	Eye Dam. 1, H318	Calculation method
	Repr. 1B, H360FD (Fertility and Unborn child)	Calculation method
Europe		
Full text of abbreviated H statements	: H 318 Causes serious eye damage. H360FD May damage fertility. May damage the unborn child. (Fertility and Unborn child)	
Full text of classifications [CLP/GHS]	: E ye Dam. 1, H318 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 Repr. 1B, H360FD TOXIC TO REPRODUCTION (Fertility and Unborn child) - Category 1B (Fertility and Unborn child)	
Full text of abbreviated R phrases	: R 61- May cause harm to the unborn child. R62- Possible risk of impaired fertility. R41- Risk of serious damage to eyes.	
Full text of classifications [DSD/DPD]	: R repr. Cat. 2 - Toxic to reproduction category 2 Repr. Cat. 3 - Toxic to reproduction category 3 Xi - Irritant	

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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