



SAFETY DATA SHEET

according to Regulation (EU) 2015/830

Page 1/7

Breakout

Revision 2

Revision date 2018-02-20

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

1.1. Product identifier

Product name	Breakout
--------------	----------

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

Product Use	[SU21] Consumer uses: Private households (= general public = consumers); ----- [SU22] Professional uses: Public domain (administration, education, entertainment, services, craftsmen);
Description	Disinfectant concentrate.

1.3. Details of the supplier of the safety data sheet

Company	Future Developments Manufacturing Ltd
Address	Davenport Street Burslem Stoke on Trent ST6 4HS Staffordshire
Web	www.fdev.co.uk
Telephone	01782 826870
Fax	01782 816392
Email	sales@fdev.co.uk
Email address of the competent person	support@fdhost.co.uk

1.4. Emergency telephone number

Emergency telephone number	01782 829000 9.00am-5.00pm Mon - Fri
----------------------------	---

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

2.1.2. Classification - EC 1272/2008	Acute Tox. 4: H302; Skin Corr. 1B: H314; Skin Sens. 1: H317; Acute Tox. 1: H330; Resp. Sens. 1: H334; STOT SE 3: H335; Aquatic Chronic 1: H410;
--------------------------------------	---

2.2. Label elements

Hazard pictograms	
Signal Word	Danger
Hazard Statement	Acute Tox. 4: H302 - Harmful if swallowed. Skin Corr. 1B: H314 - Causes severe skin burns and eye damage. Skin Sens. 1: H317 - May cause an allergic skin reaction. Acute Tox. 1: H330 - Fatal if inhaled.

Breakout

Revision 2

Revision date 2018-02-20

2.2. Label elements

Precautionary Statement: Prevention	Resp. Sens. 1: H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled. STOT SE 3: H335 - May cause respiratory irritation. Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects.
	P260 - Do not breathe dust/fume/gas/mist/vapours/spray. P261 - Avoid breathing dust/fume/gas/mist/vapours/spray. P264 - Wash thoroughly after handling. P270 - Do not eat, drink or smoke when using this product. P271 - Use only outdoors or in a well-ventilated area. P272 - Contaminated work clothing should not be allowed out of the workplace. P273 - Avoid release to the environment. P280 - Wear protective gloves/protective clothing/eye protection/face protection. P284 - [In case of inadequate ventilation] wear respiratory protection.
Precautionary Statement: Response	P301+P312 - IF SWALLOWED: Call a POISON CENTER/doctor/ /if you feel unwell. P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P302+P352 - IF ON SKIN: Wash with plenty of water/ . P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 - Immediately call a POISON CENTER/doctor/ . P312 - Call a POISON CENTER/doctor/ /if you feel unwell. P320 - Specific treatment is urgent (see on this label). P321 - Specific treatment (see on this label). P330 - Rinse mouth. P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. P342+P311 - If experiencing respiratory symptoms: Call a POISON CENTER/doctor/ . P363 - Wash contaminated clothing before reuse. P391 - Collect spillage.
Precautionary Statement: Storage	P403+P233 - Store in a well-ventilated place. Keep container tightly closed. P405 - Store locked up.
Precautionary Statement: Disposal	P501 - Dispose of contents/container to local and national regulations

SECTION 3: Composition/information on ingredients

3.2. Mixtures

EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification
Quaternary ammonium compounds, benzyl-C8-18-alkyldimethyl, chlorides	612-140-00-5	63449-41-2	264-151-6			Acute Tox. 4: H312; Acute Tox. 4: H302; Skin Corr. 1B: H314; Aquatic Acute 1: H400;
Glutaraldehyde		111-30-8	203-856-5			Met. Corr. 1: H290; Acute Tox. 3: H301; Skin Corr. 1B: H314; Skin Sens. 1: H317; Eye Dam. 1: H318; Acute Tox. 1: H330; Resp. Sens. 1: H334; STOT SE 3: H335; Aquatic Chronic 1: H410;

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Move the exposed person to fresh air. Seek medical attention if irritation or symptoms persist.
Eye contact	Get medical advice/attention. Show this safety data sheet to the medical personnel.
Skin contact	Wash off immediately with plenty of soap and water. Remove contaminated clothing. Seek medical attention if irritation or symptoms persist.

Breakout

Revision 2

Revision date 2018-02-20

4.1. Description of first aid measures

Ingestion	Rinse mouth thoroughly. Give plenty of water to drink. DO NOT INDUCE VOMITING. Immediate medical attention is required. Never give anything by mouth to an unconscious person.
-----------	--

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

Inhalation	See section 4.1 for further information.
Eye contact	See section 4.1 for further information.
Skin contact	See section 4.1 for further information.
Ingestion	See section 4.1 for further information.

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

	If you feel unwell, seek medical advice (show the label where possible). No further relevant information available.
--	---

SECTION 5: Firefighting measures

5.1. Extinguishing media

	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
--	---

5.2. Special hazards arising from the substance or mixture

	. Burning produces irritating, toxic and obnoxious fumes.
--	---

5.3. Advice for firefighters

	Wear suitable respiratory equipment when necessary.
--	---

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

	Ensure adequate ventilation of the working area. Eliminate all sources of ignition. Wear suitable protective equipment.
--	---

6.2. Environmental precautions

	Do not allow product to enter drains. Prevent further spillage if safe.
--	---

6.3. Methods and material for containment and cleaning up

	Absorb with inert, absorbent material. Transfer to suitable, labelled containers for disposal. Clean spillage area thoroughly with plenty of water.
--	---

6.4. Reference to other sections

	See section 2,3,8,13 for further information.
--	---

SECTION 7: Handling and storage

7.1. Precautions for safe handling

	Avoid contact with eyes and skin. Ensure adequate ventilation of the working area. Use explosion proof equipment. Keep away from sources of ignition - No smoking. Adopt best Manual Handling considerations when handling, carrying and dispensing.
--	--

7.2. Conditions for safe storage, including any incompatibilities

	Keep in a cool, dry, well ventilated area. Keep containers tightly closed.
--	--

7.3. Specific end use(s)

	See section 1.2 for further information.
--	--

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

	See section 8.2 for further information.
--	--

Breakout


Revision 2

Revision date 2018-02-20

8.1.1. Exposure Limit Values

Glutaraldehyde	WEL 8-hr limit ppm: 0.05	WEL 8-hr limit mg/m3: 0.2
	WEL 15 min limit ppm: 0.05	WEL 15 min limit mg/m3: 0.2
	WEL 8-hr limit mg/m3 total - inhalable dust:	WEL 15 min limit mg/m3 total - inhalable dust:
	WEL 8-hr limit mg/m3 total - respirable dust:	WEL 15 min limit mg/m3 total - respirable dust:

8.2. Exposure controls

	
8.2.1. Appropriate engineering controls	Ensure adequate ventilation of the working area.
8.2.2. Individual protection measures	Wear chemical protective clothing.
Eye / face protection	Approved safety goggles.
Skin protection - Handprotection	Chemical resistant gloves (PVC).
Respiratory protection	Self-contained breathing apparatus. Wear protective clothing.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid
Colour	Amber
Odour	Aromatic
pH	5
Flash point	Not applicable.
Flammability (solid, gas)	Not applicable.
Fat Solubility	Not applicable.
Partition coefficient	Not applicable.
Autoignition temperature	Not applicable.
Viscosity	Not applicable.
Explosive properties	Not applicable.
Oxidising properties	Not applicable.
Solubility	Soluble in water

9.2. Other information

Conductivity	Not applicable.
Surface tension	Not applicable.

Water solubility

	Miscible in water.
--	--------------------

SECTION 10: Stability and reactivity

10.1. Reactivity

	No hazardous reactions when stored and handled as indicated.
--	--

10.2. Chemical stability

	Stable under normal conditions.
--	---------------------------------

10.3. Possibility of hazardous reactions

Breakout

Revision 2

Revision date 2018-02-20

10.3. Possibility of hazardous reactions

Amines.

10.4. Conditions to avoid

Heat, sparks and open flames.

10.5. Incompatible materials

Ammonia solution. Carbon Steel. Iron. Mild Steel. Strong acids. Strong oxidising agents. Amines. Copper. Aluminium. Strong alkalis.

10.6. Hazardous decomposition products

Fire creates CO₂ and CO.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	May cause respiratory irritation.
Skin corrosion/irritation	Causes burns. Harmful in contact with skin. May cause sensitisation by skin contact. May be absorbed through the skin.
Serious eye damage/irritation	Causes burns. May cause severe inflammation, corneal ulcers and permanent impairment of vision. Vapour or spray in the eye may cause irritation and smarting.
Respiratory or skin sensitisation	Vapours may irritate throat/respiratory system. A single exposure may cause the following: Coughing. Difficulty in breathing. May cause damage to mucous membranes in nose, throat, lungs and bronchial system. May cause sensitisation by inhalation.
Repeated or prolonged exposure	May cause damage to organs through prolonged or repeated exposure.

11.1.4. Toxicological Information

Glutaraldehyde	Oral Rat LD50: 150.0	Dermal Rabbit LD50: 2001.00
Quaternary ammonium compounds, benzyl-C8-18-alkyldimethyl, chlorides	Oral Rat LD50: 397.5 mg/kg	

SECTION 12: Ecological information

12.1. Toxicity

Glutaraldehyde	Daphnia LC50/48h: 5.75	Sheephead minnows LC50/96h: 39
Quaternary ammonium compounds, benzyl-C8-18-alkyldimethyl, chlorides	Fish LC50/96h: 1.200000 mg/l	Green algae EC50/96h: 0.06 mg/l
	Daphnia LC50/48h: 0.02 mg/l	

12.2. Persistence and degradability

No data is available on this product. The substance is readily biodegradable.

12.3. Bioaccumulative potential

The product is not bioaccumulating.

Partition coefficient

Breakout Not applicable.

12.4. Mobility in soil

No data is available on this product. The product is soluble in water.

12.5. Results of PBT and vPvB assessment

Breakout

Revision 2

Revision date 2018-02-20

12.5. Results of PBT and vPvB assessment

	This product does not contain any PBT or vPvB substances.
--	---

12.6. Other adverse effects

	None known.
--	-------------

SECTION 13: Disposal considerations

13.1. Waste treatment methods

	Must be disposed of in accordance with local and national regulations.
--	--

General information

	Dispose of in compliance with all local and national regulations.
--	---

SECTION 14: Transport information

Hazard pictograms



14.1. UN number

	UN1760
--	--------

14.2. UN proper shipping name

	CORROSIVE LIQUID, N.O.S.
--	--------------------------

14.3. Transport hazard class(es)

ADR/RID	8
Subsidiary risk	-
IMDG	8
Subsidiary risk	-
IATA	8
Subsidiary risk	-

14.4. Packing group

Packing group	II
---------------	----

14.5. Environmental hazards

Environmental hazards	No
Marine pollutant	No

ADR/RID

Hazard ID	80
Tunnel Category	(E)

IMDG

EmS Code	F-A S-B
----------	---------

IATA

Packing Instruction (Cargo)	855
Maximum quantity	30 L
Packing Instruction (Passenger)	851
Maximum quantity	1 L

Breakout

Revision 2

Revision date 2018-02-20

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

	The classification detailed on this safety data sheet refers to the neat material only. Dilution of the product may reduce the classification. This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 & (EC) No. 1272/2208 & (EC) 1999/45.
--	--

15.2. Chemical safety assessment

	No further relevant information available.
--	--

SECTION 16: Other information**Other information**

Revision	This document differs from the previous version in the following areas:. 2 - 2.1.2. Classification - EC 1272/2008. 2 - Precautionary Statement: Response. 12 - 12.1. Toxicity.
Text of Hazard Statements in Section 3	Acute Tox. 4: H302 - Harmful if swallowed. Acute Tox. 4: H312 - Harmful in contact with skin. Skin Corr. 1B: H314 - Causes severe skin burns and eye damage. Aquatic Acute 1: H400 - Very toxic to aquatic life. Met. Corr. 1: H290 - May be corrosive to metals. Acute Tox. 3: H301 - Toxic if swallowed. Skin Sens. 1: H317 - May cause an allergic skin reaction. Eye Dam. 1: H318 - Causes serious eye damage. Acute Tox. 1: H330 - Fatal if inhaled. Resp. Sens. 1: H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled. STOT SE 3: H335 - May cause respiratory irritation. Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects.

Further information

	The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process.
--	--