

Product RELOAD No.11 - CONCENTRATED BACTI VIR  
 Revision date 17 July 2017  
 Revision 1



## Safety Data Sheet (SDS)

### Section 1: Identification of the substance/preparation and of the company/undertaking

#### 1.1 Product identifier

**Product name** RELOAD No.11 - CONCENTRATED BACTI VIR  
**Product no.** REAQUABACTIVIR  
**Synonyms, Trade names** No information available.

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

**Identified uses** Cleaning agent.  
**Uses advised against** Any other purpose.

#### 1.3 Details of the supplier of the safety data sheet

**Supplier** Kitchenmaster NI Ltd  
 11 Comber Road  
 Belfast  
 BT8 8AN  
 United Kingdom  
 Tel: 028 9081477 02890812881  
 sales@kitchenmaster-ni.com

**Contact person**

#### 1.4 Emergency telephone number

**Emergency telephone** Emergency Telephone Number: 028 9081 4777 08:30 - 17:00 Monday to Thursday 08:30 - 16:30 Friday

### Section 2: Hazards identification

#### 2.1 Classification of the substance or mixture

**Classification (EC 1272/2008)**  
 Physical and chemical hazards Not classified  
 Human health Skin Corr. 1B - H314, Eye Dam. 1 - H318  
 Environment Aquatic Acute 1 - H400, Aquatic Chronic 2 - H411

#### 2.2 Label elements

**Contains** Alcohols, C12-15, ethoxylated  
 disodium metasilicate  
 Benzyl-C12-14-alkyldimethylammonium chlorides

**Label in accordance with (EC) no. 1272/2008**



**Signal word** Danger

**Hazard statements** H314 Causes severe skin burns and eye damage.  
 H400 Very toxic to aquatic life.  
 H411 Toxic to aquatic life with long lasting effects.

**Precautionary statements** **Prevention**  
 P260 Do not breathe dust/fume/ gas/mist/vapours/spray.  
 P280 Wear protective gloves/ protective clothing/eye protection/face protection.

**Response**

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/ shower.

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 or doctor/physician.

**2.3 Other hazards**

None known.

**Section 3: Composition/identification of ingredients****3.1 Substance**

Not applicable.

**3.2 Mixtures**

Name	Product identifier	Reg. EU 1272/2008	%
2-(2-butoxyethoxy)ethanol diethylene glycol monobutyl ether	CAS-No.: 112-34-5 EC No.: 203-961-6	Eye Irrit.2A - H319	1-10%
Alcohols, C12-15, ethoxylated	CAS-No.: 68131-39-5 EC No.: 500-195-7	Eye Dam. 1 - H318, Aquatic Acute 1 - H400, Aquatic Chronic 3 - H412	1-10%
edetic acid(EDTA)	CAS-No.: 60-00-4 EC No.: 200-449-4	Eye Irrit.2A - H319	1-10%
disodium metasilicate	CAS-No.: 6834-92-0 EC No.: 229-912-9	Skin Corr. 1B - H314, STOT SE 3 - H335	1-10%
Benzyl-C12-14-alkyldimethylammonium chlorides	CAS-No.: EC No.: 939-350-2 REACH Reg No.: 01-2119970550-39-0000	Acute Tox 4 - H302, Skin Corr. 1B - H314, Eye Dam. 1 - H318, Aquatic Acute 1 - H400, Aquatic Chronic 1 - H410	1-10%
ethanol ethyl alcohol	CAS-No.: 64-17-5 EC No.: 200-578-6	Flam. Liq 2- H225	0.01-0.9%

The full text for all hazard statements are displayed in section 16.

**Composition comments**

The data shown are in accordance with the latest EC Directives.

**Section 4: First aid measures****4.1 Description of first aid measures****General information**

Provide general first aid, rest, warmth and fresh air. As a general rule, in case of doubt or if symptoms persist, always call a doctor. Seek medical attention for all burns and eye injuries, regardless how minor they may seem. First aid personnel must be aware of own risk during rescue.

**Inhalation**

Remove person to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention.

**Ingestion**

If this product is ingested, remove victim immediately from source of exposure. Rinse mouth thoroughly. Do not induce vomiting. Provide fresh air, warmth and rest. Get medical attention. Never give anything by mouth to an unconscious person.

**Skin contact**

Remove victim immediately from source of exposure. Remove contaminated clothing, shoes and jewelry and wash before reuse. Wash the skin immediately with water. Obtain medical attention if irritation persists or if blistering occurs.

**Eye contact**

Do not rub eye. If this product contacts the eyes, gently flush eyes with water for at least fifteen (15) minutes, lifting the upper and lower eyelids occasionally. Remove contact lenses if present and easy to do so. Avoid contaminating unaffected eye. Seek medical attention.

**4.2 Most important symptoms and effects, both acute and delayed****General information**

The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

**Inhalation**

Inhalation of mist or vapor may cause respiratory tract irritation.

**Ingestion**

May cause stomach pain or vomiting. May cause chemical burns in mouth and throat.

**Skin contact**

May cause serious chemical burns to the skin.

<b>Eye contact</b>	Causes serious eye damage. Extreme irritation of eyes and mucous membranes, including burning and tearing.
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#### **4.3 Indication of any immediate medical attention and special treatment needed**

<b>Notes to the physician</b>	Treat symptomatically.
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### **Section 5: Fire-fighting measures**

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#### **5.1 Extinguishing media**

<b>Extinguishing media</b>	Use fire-extinguishing media appropriate for surrounding materials.
<b>Unsuitable extinguishing media</b>	None noted.

#### **5.2 Special hazards arising from the substance or mixture**

<b>Hazardous combustion products</b>	When heated, toxic and corrosive vapours/gases may be formed. During fire, toxic gases (CO, CO <sub>2</sub> ) are formed.
<b>Unusual fire &amp; explosion hazards</b>	No unusual fire or explosion hazards noted.
<b>Specific hazards</b>	Fire creates: Carbon monoxide (CO). Carbon dioxide (CO <sub>2</sub> ). Do not allow run-off from fire fighting to enter drains or water courses.

#### **5.3 Advice for firefighters**

<b>Special fire fighting procedures</b>	If possible, fight fire from protected position. Avoid breathing fire vapours. Ventilate closed spaces before entering them. Containers close to fire should be removed immediately or cooled with water if safe to do so.
<b>Protective equipment for firefighters</b>	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.

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### **Section 6: Accidental release measures**

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#### **6.1 Personal precautions, protective equipment and emergency procedures**

<b>Personal precautions</b>	Wear protective clothing as described in Section 8 of this safety data sheet. Provide adequate ventilation. Eliminate all sources of ignition. Avoid inhalation of vapours and contact with skin and eyes. In case of inadequate ventilation, use respiratory protection. Do not touch or walk through spilled material. If necessary evacuate surrounding areas.
<b>For emergency responders</b>	Follow safe handling advice and personal protective equipment recommendations for normal use of product.

#### **6.2 Environmental precautions**

<b>Environmental precautions</b>	Do not discharge onto the ground or into water courses. Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body.
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#### **6.3 Methods and material for containment and cleaning up**

<b>Spill clean up methods</b>	Stop leak if possible without risk. Eliminate all sources of ignition. Ventilate and evacuate the area. DO NOT touch spilled material! When dealing with a spillage, wear necessary protective equipment. Absorb spillage with non-combustible, inert absorbent material. Ensure that waste and contaminated materials are collected and removed from the work area as soon as possible in a suitably labelled container. Wash thoroughly after dealing with a spillage.
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#### **6.4 Reference to other sections**

<b>Reference to other sections</b>	See section 1 for emergency contact. For personal protection, see section 8. For waste disposal, see section 13.
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### **Section 7: Handling and storage**

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**7.1 Precautions for safe handling****Handling**

Read and follow manufacturer's recommendations. Use proper personal protection when handling (refer to Section 8). Do not handle broken packages without protective equipment. Do not use contact lenses.  
Keep away from heat, sparks and open flame. Avoid spilling, skin and eye contact. Do not eat, drink or smoke when using the product. Wash thoroughly after handling.

**7.2 Conditions for safe storage, including any incompatibilities****Storage precautions**

Keep upright, locked up and out of reach of children. Keep the product in its original container. Store in cool dry areas away from direct sunlight or sources of ignition.

**Storage class**

Corrosive storage.

**7.3 Specific end use(s)****Specific end use(s)**

The identified uses for this product are detailed in Section 1.2.

**Usage description**

Use only according to directions. Replace and tighten cap after use.

**Section 8: Exposure controls/Personal protection****8.1 Control parameters**

Component	STD	TWA (8 Hrs)		STEL (15mins)		Notes
2-(2-butoxyethoxy)ethanol diethylene glycol monobutyl ether	WEL	10 ppm	67,5 mg/m <sup>3</sup>	15 ppm	101,2 mg/m <sup>3</sup>	
2-(2-butoxyethoxy)ethanol diethylene glycol monobutyl ether	OEL	10 ppm	67.5 mg/m <sup>3</sup>	15 ppm	101.2 mg/m <sup>3</sup>	
ethanol ethyl alcohol	WEL	1000 ppm	1920 mg/m <sup>3</sup>			
ethanol ethyl alcohol	OEL			1000 ppm		

**Ingredient comments**

WEL - Workplace Exposure Limits - EH40/2005 Workplace exposure limits.  
OEL - Occupational Exposure Limit - Ireland, Occupational Exposure Limits 2016.

**8.2 Exposure Controls****Protective equipment****Engineering measures**

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.

**Respiratory equipment**

If ventilation is inadequate, suitable respiratory protection must be worn. EN 136/140/145/143/149. The specific respirator selected must be based on contamination levels found in the work place. Where risk assessment shows air-purifying respirators are appropriate a full face respirator conforming to EN143 should be used, and suitable respirator cartridges as a backup to engineering controls. Recommended: Respirator with combination filter for vapour/particulate (EN 141). Consult manufacturer for specific advice. Where hand contact with the product may occur the use of gloves approved to relevant standards (e.g. Europe: EN374) is recommended. (EU Directive 89/686/EEC). Gloves must be inspected prior to use. Suggested material: Butyl-rubber. Breakthrough time: >480 minutes. Minimum layer thickness: 0.33 mm. Consult manufacturer for advice.

Selection of the glove material depends on consideration of the penetration times, rates of diffusion and degradation, and concentration specific to the workplace. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.

**Eye protection**

Wear safety goggles or face shield to prevent any possibility of eye contact. Use equipment for eye protection tested and approved under appropriate government standards such as EN 166(EU).

**Other protection**

Wear appropriate clothing to prevent skin contact. The selected clothing must satisfy the European norm standard EN 943. Personal protective equipment for the body should be

<b>Hygiene measures</b>	selected based on the task being performed and the risks involved and should be approved by a specialist before handing this product. Work clothing worn by personnel shall be laundered regularly. After contact with the product, all parts of the body that have been soiled must be washed.
<b>Process conditions</b>	Observe normal hygiene standards. Wash promptly if skin becomes contaminated. When using do not eat, drink or smoke. Wash hands after use. Ensure that eye flushing systems and safety showers are located close by in the work place.

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## Section 9: Physical and chemical properties

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### 9.1 Information on basic physical and chemical properties

<b>Appearance</b>	Liquid.
<b>Colour</b>	Dark Turquoise.
<b>Odour</b>	No information available.
<b>Odour threshold - lower</b>	No information available.
<b>Odour threshold - upper</b>	No information available.
<b>pH-Value, Conc. Solution</b>	14.00
<b>pH-Value, Diluted solution</b>	No information available.
<b>Melting point</b>	No information available.
<b>Initial boiling point and boiling range</b>	No information available.
<b>Flash point</b>	No information available.
<b>Evaporation rate</b>	No information available.
<b>Flammability state</b>	No information available.
<b>Flammability limit - lower(%)</b>	No information available.
<b>Flammability limit - upper(%)</b>	No information available.
<b>Vapour pressure</b>	No information available.
<b>Vapour density (air=1)</b>	No information available.
<b>Relative density</b>	1.065g/cm <sup>3</sup> @ 20.00 °C
<b>Bulk density</b>	No information available.
<b>Solubility</b>	Soluble in water.
<b>Decomposition temperature</b>	Not applicable.
<b>Partition coefficient; n-Octanol/Water</b>	No information available.
<b>Auto ignition temperature (°C)</b>	No information available.
<b>Viscosity</b>	No information available.
<b>Explosive properties</b>	Not classified as explosive.
<b>Oxidising properties</b>	No information available.

### 9.2 Other information

<b>Molecular weight</b>	No information available.
<b>Volatile organic compound</b>	No information available.
<b>Other information</b>	None noted.

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**Section 10: Stability and reactivity**

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**10.1 Reactivity**

**Reactivity** Reactions may occur with strong oxidizing materials and strong acids.

**10.2 Chemical stability**

**Stability** Stable under normal temperature conditions and recommended use.

**10.3 Possibility of hazardous reactions**

**Hazardous reactions** Avoid strong oxidizers. Reacts with acids.  
**Hazardous polymerisation** Will not polymerise.  
**Polymerisation description** Not applicable.

**10.4 Conditions to Avoid**

**Conditions to avoid** Heat, sparks, open flames, temperature extremes and direct sunlight. Avoid storing in large quantities or for long periods of time.

**10.5 Incompatible materials**

**Materials to avoid** Do not mix with other chemicals unless listed on directions. Avoid strong oxidising agents, bases, strong acids. Avoid contact with Aluminium, Zinc, Lead, Tin and alloys of these metals

**10.6 Hazardous decomposition products**

**Hazardous decomposition products** Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

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**Section 11: Toxicological information**

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**11.1 Information on toxicological effects**

**Toxicological information** No toxicological information for the overall finished product.

**Acute toxicity (Oral LD50)** Alcohols, C12 -15, ethoxylated (CAS 68131-39-5): > 5000 mg/kg, Rat. REACH dossier information. BENZALKONIUM CHLORIDE (CAS 68391-01-5): 150 mg/kg, Mouse. DISODIUM METASILICATE (CAS 6834-92-0): 994 mg/kg, Rat. REACH dossier information.

**Acute toxicity (Dermal LD50)** Alcohols, C12 -15, ethoxylated (CAS 68131-39-5): > 2000 mg/kg, Rat. REACH dossier information. BENZALKONIUM CHLORIDE (CAS 68391-01-5): 1420 mg/kg, Rat. DISODIUM METASILICATE (CAS 6834-92-0): > 3000 mg/kg, Rat. REACH dossier information.

**Acute toxicity (Inhalation LD50)** Alcohols, C12 -15, ethoxylated (CAS 68131-39-5): > 1.6 mg/l, (dust/mist) Rat - 4 hours. REACH dossier information. DISODIUM METASILICATE (CAS 6834-92-0): > 2.06 mg/l, (vapours) Rat. REACH dossier information.

**Serious eye damage/irritation** Causes severe eye damage.

**Skin corrosion/irritation** No information available.

**Respiratory sensitisation** No information available.

**Skin sensitisation** No information available.

**Germ cell mutagenicity** No information available.

**Carcinogenicity** No information available.

**Specific target organ toxicity - Single exposure:**  
**STOT - Single exposure** No information available.

**Specific target organ toxicity - Repeated exposure:**  
**STOT - Repeated exposure** No information available.

**Inhalation** Inhalation of mist or vapor may cause respiratory tract irritation.

**Ingestion** May cause stomach pain or vomiting. May cause chemical burns in mouth and throat.

**Skin contact** May cause serious chemical burns to the skin.

**Eye contact** Causes serious eye damage. Extreme irritation of eyes and mucous membranes, including burning and tearing.

**Waste management** When handling waste, consideration should be made to the safety precautions applying to

	handling of the product.
<b>Routes of entry</b>	No information available.
<b>Target organs</b>	Eyes, skin, digestive system, respiratory system.
<b>Aspiration hazards:</b>	No information available.
<b>Reproductive toxicity:</b>	No information available.

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## Section 12: Ecological information

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### 12.1 Toxicity

<b>Acute toxicity - Fish</b>	Alcohols, C12 -15, ethoxylated (CAS 68131-39-5) LC50: (96 hours) 0.59 mg/l, Pleuronectes platessa. REACH dossier information. BENZALKONIUM CHLORIDE (CAS 68391-01-5): LC50 96 hours 0.31 mg/l Lepomis macrochirus (Bluegill.) DISODIUM METASILICATE (CAS 6834-92-0) LC50: (96 hours) 210 mg/l, Brachydanio rerio (Zebra Fish.) REACH dossier information.
<b>Acute toxicity - Aquatic invertebrates</b>	Alcohols, C12 -15, ethoxylated (CAS 68131-39-5) EC50: (48 hours) 0.14 mg/l, Daphnia magna. REACH dossier information. DISODIUM METASILICATE (CAS 6834-92-0) EC50: (48 hours) 7.8 pH, Daphnia magna. REACH dossier information.
<b>Acute toxicity - Aquatic plants</b>	Alcohols, C12 -15, ethoxylated (CAS 68131-39-5) EC50: (72 hours) 0.75 mg/l, Selenastrum capricornutum. REACH dossier information. DISODIUM METASILICATE (CAS 6834-92-0) EC50: (72 hours) 207 mg/l, Desmodesmus subspicatus. REACH dossier information.
<b>Acute toxicity - Microorganisms</b>	No information available.
<b>Chronic toxicity - Fish</b>	No information available.
<b>Chronic toxicity - Aquatic invertebrates</b>	No information available.
<b>Chronic toxicity - Aquatic plants</b>	No information available.
<b>Chronic toxicity - Microorganisms</b>	No information available.
<b>Ecotoxicity</b>	Very toxic to aquatic life with long lasting effects.
<b>Eco toxicological information</b>	No ecological toxicity available on the overall finished product.

### 12.2 Persistence and degradability

<b>Degradability</b>	The degradability of the product has not been stated.
<b>Biological oxygen demand</b>	No information available.
<b>Chemical oxygen demand</b>	No information available.

### 12.3 Bioaccumulative potential

<b>Bioaccumulative potential</b>	No data available on bioaccumulation.
<b>Bioaccumulation factor</b>	No information available.
<b>Partition coefficient; n-Octanol/Water</b>	No information available.

### 12.4 Mobility in soil

<b>Mobility</b>	Soluble in water.
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### 12.5 Results of PBT and vPvB assessment

<b>Results of PBT and vPvB assessment</b>	None of the raw materials listed are classified as PBT / vPvB substances.
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### 12.6 Other adverse effects

<b>Other adverse effects</b>	None known.
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## Section 13: Disposal considerations

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<b>Waste management</b>	When handling waste, consideration should be made to the safety precautions applying to handling of the product.
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**13.1 Waste treatment methods****Disposal methods**

Dispose of waste and residues in accordance with local authority requirements. For waste disposal, use a licensed industrial waste disposal agent.

**Section 14: Transport information****14.1 UN number**

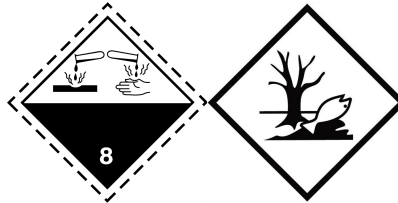
UN no. (ADR)	UN1760
UN no. (IMDG)	UN1760
UN no. (IATA)	UN1760

**14.2 UN proper shipping name**

ADR proper shipping name	CORROSIVE LIQUID, N.O.S. (disodium metasilicate + Benzyl-C12--4-alkyldimethylammonium chlorides)
IMDG proper shipping name	CORROSIVE LIQUID, N.O.S. (disodium metasilicate + Benzyl-C12--4-alkyldimethylammonium chlorides)
IATA proper shipping name	CORROSIVE LIQUID N.O.S. (disodium metasilicate + Benzyl-C12--4-alkyldimethylammonium chlorides)

**14.3 Transport hazard class(es)**

ADR class	8
IMDG class	8
IATA class	8

**Transport labels****14.4 Packing group**

ADR/RID/ADN packing group	III
IMDG packing group	III
IATA packing group	III

**14.5 Environmental hazards**

ADR	Yes
IMDG	Yes
IATA	Yes

**14.6 Special precautions for user**

EMS	F-A, S-B
Emergency action code	A3
Hazard no. (ADR)	80
Tunnel restriction code	(E)

**14.7 Transport in bulk according to annex II of MARPOL73/78 and the IBC code****Section 15: Regulatory information****15.1 Safety, health and environmental regulations/Legislation specific for the substance or mixture**

EU legislation	Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments. The UN Globally Harmonized System (GHS) Safety Data Sheet format (Annex IV) is implemented as Annex II of REACH EU No 453/2010 of 20th May 2010 amending regulation (EC) No 1907/2006.
Approved code of practice	Workplace Exposure Limits Guidance Note EH40/2005.  2016 Code of Practice for the Chemical Agents Regulations in accordance with section 60 of



the Safety, Health and Welfare at Work Act 2005 (No. 10 of 2005).

**Chemical safety assessment** No chemical safety assessment has been carried out.

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**Section 16: Other information**

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<b>General information</b>	This Safety Data Sheet is in accordance with Reach Regulation (EC) No 453/2010.
<b>Revision comments</b>	This is a first issue.
<b>Revision date</b>	17 July 2017
<b>Revision</b>	1
<b>Safety data sheet status</b>	Approved.

**Hazard statements in full**

<b>H319</b>	Causes serious eye irritation.
<b>H302</b>	Harmful if swallowed.
<b>H318</b>	Causes serious eye damage.
<b>H400</b>	Very toxic to aquatic life.
<b>H412</b>	Harmful to aquatic life with long lasting effects.
<b>H314</b>	Causes severe skin burns and eye damage.
<b>H335</b>	May cause respiratory irritation.
<b>H410</b>	Very toxic to aquatic life with long lasting effects.
<b>H225</b>	Highly flammable liquid and vapour.
<b>H272</b>	May intensify fire; oxidiser.
<b>H301</b>	Toxic if swallowed.
<b>H311</b>	Toxic in contact with skin.
<b>H317</b>	May cause an allergic skin reaction.
<b>H331</b>	Toxic if inhaled.
<b>H411</b>	Toxic to aquatic life with long lasting effects.

**Disclaimer**

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 process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.