

### Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Date first issue: 01/08/2008 Review date: 09/09/2020 Supersedes version of: 24/03/2015 Version: 6.1

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

stance/mixture and of the company/und
: Mixture
: KORAL
: 495
: Detergent
: Mixture
ance or mixture and uses advised against
: Industrial use, Professional use
: Industrial For professional use only
: Cleaning/washing agents and additives
ata sheet
Supplier
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#### 1.4

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Country	Official advisory body	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals- 24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	
United Kingdom	National Poisons Information Service (Birmingham Centre)	Dudley Road B18 7QH Birmingham	0344 892 0111	Only for healthcare professionals

H314

Belgium

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### **SECTION 2: Hazards identification** 2.1. Classification of the substance or mixture

City Hospital

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

Skin Corr. 1 Full text of hazard classes, H- and EUH-statements: see section 16

### Adverse physicochemical, human health and environmental effects

### No additional information available

### 2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP] Hazard pictograms (CLP)

	▼		
GHS05			
CLP Signal word	: Danger		
Contains	: sulphamidic acid; sulphamic acid; sulfamic acid, ALCOHOLS, C9-11, ETHOXYLATED		
Hazard statements (CLP)	: H314 - Causes severe skin burns and eye damage.		
Precautionary statements (CLP)	<ul> <li>P102 - Keep out of reach of children.</li> <li>P280 - Wear eye protection, protective gloves.</li> <li>P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.</li> <li>P313 - Get medical advice/attention.</li> <li>P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing.</li> <li>Rinse skin with water or shower.</li> </ul>		

P332+P313 - If skin irritation occurs: Get medical advice/attention.

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P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 - If eye irritation persists: Get medical advice/attention. P362 - Take off contaminated clothing.

### 2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

### **SECTION 3: Composition/information on ingredients**

### 3.1. Substances

- Not applicable
- 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
sulphamidic acid; sulphamic acid; sulfamic acid	CAS-no: 5329-14-6 Einecs nr: 226-218-8 EG annex nr: 016-026-00-0	3-5	Eye Irrit. 2, H319 Skin Irrit. 2, H315 Aquatic Chronic 3, H412
Diethylene glycol monobutyl ether substance with national workplace exposure limit(s) (IE, GB); substance with a Community workplace exposure limit	CAS-no: 112-34-5 Einecs nr: 203-961-6 EG annex nr: 603-096-00-8 REACH-no: 01-2119475104- 44	3 – 5	Eye Irrit. 2, H319
ALCOHOLS, C9-11, ETHOXYLATED	CAS-no: 68439-46-3	1 – 3	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318

Full text of H- and EUH-statements: see section 16

### SECTION 4: First aid measures

4.1. Description of first aid measures				
	General advice	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).		
	Inhalation	: Allow affected person to breathe fresh air. Allow the victim to rest.		
	Skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.		
	Eye contact	: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.		
	Ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.		
	<b>4.2. Most important symptoms and effects, b</b> Acute effects skin	oth acute and delayed : mild skin irritation.		
	Acute effects eyes	: May cause eye irritation. Redness.		
	Acute effects oral route	: May cause irritation to the digestive tract.		
	<b>4.3. Indication of any immediate medical atte</b> No additional information available	ntion and special treatment needed		
	SECTION 5: Firefighting measures 5.1. Extinguishing media Suitable extinguishing media	: Water.		
	<b>5.2. Special hazards arising from the substar</b> Hazardous decomposition products in case of fire	nce or mixture : Toxic fumes may be released. Carbon dioxide. Carbon monoxide.		

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

Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any
	chemical fire. Prevent fire fighting water from entering the environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.

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# SECTION 6: Accidental release measures 6.1. Personal precautions, protective equipment and emergency procedures 6.1.1. For non-emergency personnel Emergency procedures : Evacuate unnecessary personnel.

### 6.1.2. For emergency responders

 Protective equipment
 : Equip cleanup crew with proper protection.

 Emergency procedures
 : Ventilate area.

#### 6.2. Environmental precautions

Methods for cleaning up

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

### 6.3. Methods and material for containment and cleaning up

: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials. Absorb spillage to prevent material damage.

### 6.4. Reference to other sections

See Section 8. Exposure controls and personal protection.

### **SECTION 7: Handling and storage**

7.1. Precautions for safe handling			
Precautions for safe handling	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.		
7.2. Conditions for safe storage, including any incompatibilities			
Storage conditions	: Keep container tightly closed.		
Incompatible products	: Strong bases.		
Incompatible materials	: Direct sunlight.		
Packaging materials	: polyethylene. stainless steel.		
7 3 Specific and use(s)			

7.3. Specific end use(s) No additional information available

### **SECTION 8: Exposure controls/personal protection**

### 8.1. Control parameters

### 8.1.1 National occupational exposure and biological limit values

Diethylene glycol monobutyl ether (112-34-5)		
EU - Indicative Occupational Exposure Limit (IOEL)		
Local name	2-(2-Butoxyethoxy)ethanol	
IOEL TWA	67.5 mg/m <sup>3</sup>	
IOEL TWA [ppm]	10 ppm	
IOEL STEL	101.2 mg/m <sup>3</sup>	
IOEL STEL [ppm]	15 ppm	
Regulatory reference	COMMISSION DIRECTIVE 2006/15/EC	
Ireland - Occupational Exposure Limits		
Local name	2-(2-Butoxyethoxy)ethanol	
OEL TWA [1]	67.5 mg/m <sup>3</sup>	
OEL TWA [2]	10 ppm	
OEL STEL	101.2 mg/m <sup>3</sup>	
OEL STEL [ppm]	15 ppm	
Remark	IOELV (Indicative Occupational Exposure Limit Values)	
Regulatory reference	Chemical Agents Code of Practice 2021	
United Kingdom - Occupational Exposure Limits		
Local name	2-(2-Butoxyethoxy)ethanol	
WEL TWA (OEL TWA) [1]	67.5 mg/m <sup>3</sup>	
WEL TWA (OEL TWA) [2]	10 ppm	

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Diethylene glycol monobutyl ether (112-34-5)		
WEL STEL (OEL STEL)	101.2 mg/m <sup>3</sup>	
WEL STEL (OEL STEL) [ppm]	15 ppm	
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE	

#### 8.1.2. Recommended monitoring procedures

No additional information available

### 8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

### 8.1.5. Control banding

No additional information available

### 8.2. Exposure controls

8.2.1. Appropriate engineering controls

No additional information available

### 8.2.2. Personal protection equipment

#### Personal protective equipment:

Gloves. Safety glasses. Avoid all unnecessary exposure.

### Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection Eye protection: Chemical goggles or safety glasses

### 8.2.2.2. Skin protection Hand protection:

Wear protective gloves.

#### 8.2.2.3. Respiratory protection

Respiratory protection: Not required

8.2.2.4. Thermal hazards

No additional information available

### 8.2.3. Environmental exposure controls

#### Other information:

Do not eat, drink or smoke during use.

#### SECTION 9: Physical and chemical properties 9.1. Information on basic physical and chemical properties

9.1. Information on basic physical and	chemical properties
Physical state	: Liquid
Colour	: Blue.
Physical state/form	: Liquid.
Odour	: Slight.
Odour threshold	: Not available
Melting point/range	: 0 °C
Freezing point	: Not available
Boiling point/Boiling range	: 100 °C
Flammability	: Non flammable.
Explosive limits	: Not available
Lower explosion limit	: Not available

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Upper explosion limit	: Not available
Flash point	: Not available
Autoignition temperature	: Not available
Decomposition temperature	: Not available
рН	: 1
Viscosity, kinematic	: Not available
Solubility	: soluble in water.
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50 °C	: Not available
Density	: Not available
Relative density	: 1.024
Relative vapour density at 20 °C	: Not available
Particle characteristics	: Not applicable
0.0. Other information	

### 9.2. Other information

No additional information available

### 9.2.1. Information with regard to physical hazard classes

9.2.2. Other safety characteristics	
VOC content	: 0 g/l

### **SECTION 10: Stability and reactivity**

#### **10.1. Reactivity** Stable under normal conditions.

10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

### 10.5. Incompatible materials

Strong bases.

### 10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

### **SECTION 11: Toxicological information**

#### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008 Acute toxicity (oral) : Not classified

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

Diethylene glycol monobutyl ether (112-34-5)		
LD50 oral rat	6600 mg/kg bodyweight	
LD50 dermal rabbit	2764 mg/kg bodyweight	
LC50 Inhalation - Rat (Dust/Mist)	> 196 mg/l	
ALCOHOLS, C9-11, ETHOXYLATED (68439-46-3)		

LD50 oral rat	> 300 (≤ 2000) mg/kg
Skin corrosion/irritation	: Causes severe skin burns.
	pH: 1
Serious eye damage/irritation	: Assumed to cause serious eye damage
	pH: 1
Respiratory or skin sensitisation	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Germ cell mutagenicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Carcinogenicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met

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Reproductive toxicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
STOT-single exposure	: Not classified
Additional information	: Based on available data, the classification criteria are not met
STOT-repeated exposure	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Aspiration hazard	: Not classified
Additional information	: Based on available data, the classification criteria are not met
11.2. Information on other hazards	
11.2.1. Endocrine disrupting properties No additional information available	
<b>11.2.2. Other information</b> Potential adverse human health effects and symptoms	: Based on available data, the classification criteria are not met
SECTION 12: Ecological information 12.1. Toxicity	
Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Not classified
Not rapidly degradable	
Diethylene glycol monobutyl ether (112-34	-5)

Diethylene glycol monobutyl ether (112-34-5)		
LC50 - Fish [1]	> 100 mg/l	
EC50 - Crustacea [1]	> 1000 mg/l	
EC50 - Other aquatic organisms [1]	> 1000 mg/l waterflea	
EC50 - Other aquatic organisms [2]	> 100 mg/l	
ErC50 algae	> 100 mg/l	
ALCOHOLS, C9-11, ETHOXYLATED (68439-46-3)		
LC50 - Fish [1]	1 – 10 mg/l	
LC50 - Fish [2]	1 – 10 mg/l	
12.2. Persistence and degradability		
KORAL		
Persistence and degradability	Biodegradable. The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.	
Diethylene glycol monobutyl ether (112-34-5)		
Persistence and degradability	Readily biodegradable.	
12.3. Bioaccumulative potential		
KORAL		
Bioaccumulative potential	No bioaccumulation.	
Diethylene glycol monobutyl ether (112-34-5)		
Log Pow	0.56	
Bioaccumulative potential	No bioaccumulation.	
12.4. Mobility in soil No additional information available 12.5. Results of PBT and vPvB assessment		
KORAL		
NUNAL		
This substance/mixture does not meet the PBT criteria	a of REACH regulation, annex XIII	

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### 12.6. Endocrine disrupting properties

### No additional information available

12.7. Other adverse effects

### No additional information available

### **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

Product/Packaging disposal recommendations: Dispose in a safe manner in accordance with local/national regulations.Waste / unused products: Avoid release to the environment.

### SECTION 14: Transport information

ADR	IMDG	ΙΑΤΑ
14.1. UN number or ID number		·
Not regulated	Not regulated	Not regulated
14.2. UN proper shipping name		·
Not regulated	Not regulated	Not regulated
14.3. Transport hazard class(es)		·
Not regulated	Not regulated	Not regulated
14.4. Packing group		·
Not regulated	Not regulated	Not regulated
14.5. Environmental hazards		·
Not regulated	Not regulated	Not regulated
No supplementary information available		·

### 14.6. Special precautions for user

Overland transport

Not regulated

### Transport by sea

Not regulated

#### Air transport

Not regulated

14.7. Maritime transport in bulk according to IMO instruments Not applicable

### **SECTION 15: Regulatory information**

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

### 15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Contains no substance subject to REGULATION (EU) No 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 September 2009 on substances that deplete the ozone layer.

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

VOC content : 0 g/l

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## Detergent Regulation (648/2004/EC): Labelling of contents: % Component % non-ionic surfactants 5-15%

Contains no substance subject to Regulation (EC) 273/2004 of the European Parliament and of the Council of 11 February 2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances.

### 15.1.2. National regulations

No additional information available

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

### **SECTION 16: Other information**

Data sources

 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.
 None.

Other information

### Full text of H- and EUH-statements:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H412	Harmful to aquatic life with long lasting effects.
Skin Corr. 1	Skin corrosion/irritation, Category 1
Skin Irrit. 2	Skin corrosion/irritation, Category 2

### Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Skin Corr. 1 H314 Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

On basis of test data