

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Issue date: 7-11-2018 Revision date: 18-12-2018 Supersedes: 7-11-2018 Version: 1.1

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

: Cleaner

1.1. Product identifier

Product form	: Mixture
Trade name	: BioSol XT
Product code	: 06.20.77
Type of product	: Detergent
Product group	: Trade product

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

1.2.1. Relevant identified uses

Intended for general public Main use category Use of the substance/mixture

: Industrial use, Professional use, Consumer use

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Kroon Oil BV Dollegoorweg 15 7602 EC Almelo - Netherlands T 0031 (0)546 81 81 65 vib@kroon-oil.nl

1.4. Emergency telephone number

Country	Organisation/Company	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 (Cardiff Centre) Gwenwyn Ward, Llandough Hospital	Penarth CF64 2XX Cardiff	0344 892 0111	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Skin corrosion/irritation, Category 2	H315
Serious eye damage/eye irritation, Category 1	H318
Full text of H statements : see section 16	

Adverse physicochemical, human health and environmental effects

Causes skin irritation. Causes serious eye damage.

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

2.2. Label elements

 Hazard pictograms (CLP) GHS05 Signal word (CLP) Hazardous ingredients Alcohols, C9-11, ethoxylated; Quaternary chloride; 2-aminoethanol Hazard statements (CLP) H315 - Causes skin irritation. H318 - Causes serious eye damage. Precautionary statements (CLP) P101 - If medical advice is needed, have 	
Hazardous ingredients: Alcohols, C9-11, ethoxylated; Quaternary chloride; 2-aminoethanolHazard statements (CLP): H315 - Causes skin irritation. H318 - Causes serious eye damage.	
chloride; 2-aminoethanolHazard statements (CLP): H315 - Causes skin irritation.H318 - Causes serious eye damage.	
H318 - Causes serious eye damage.	coco alkyl methyl amine ethoxylate methyl
Precautionary statements (CLP) : P101 - If medical advice is needed, have	
	Iling.

No additional information available

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]
(2-methoxymethylethoxy)propanol substance with a Community workplace exposure limit substance with national workplace exposure limit(s) (GB)	(CAS-No.) 34590-94-8 (EC-No.) 252-104-2 (REACH-no) 01-2119450011-60	2,5 – 10	Not classified
Amines, N-C8-22-alkyltrimethylenedi-, acrylated, sodium salts	(CAS-No.) 97659-50-2 (EC-No.) 307-455-7 (REACH-no) 01-2119976233-35	2,5 – 10	Eye Irrit. 2, H319
Alcohols, C9-11, ethoxylated	(CAS-No.) 68439-46-3 (EC-No.) 614-482-0 (REACH-no) 01-2119980051-45	2,5 – 5	Eye Dam. 1, H318
2-aminoethanol	(CAS-No.) 141-43-5 (EC-No.) 205-483-3 (EC Index-No.) 603-030-00-8 (REACH-no) 01-2119486455-28	2,5 – 5	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335
Quaternary coco alkyl methyl amine ethoxylate methyl chloride	(CAS-No.) 863679-20-3 (EC-No.) 627-129-0	1 – 2,5	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318

Full text of H-statements: see section 16

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

SECTION 4: First aid measures 4.1. Description of first aid measures First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. First-aid measures after skin contact : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention. First-aid measures after eye contact Rinse eyes with water as a precaution. Rinse cautiously with water for several minutes. : Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Call a physician immediately. First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell. 4.2. Most important symptoms and effects, both acute and delayed Symptoms/effects after skin contact : Irritation. Symptoms/effects after eye contact : Serious damage to eyes.

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

Treat symptomatically.

SECTION 5: Firefighting measures		
5.1. Extinguishing media		
Suitable extinguishing media Unsuitable extinguishing media	Water spray. Dry powder. Foam. Carbon dioxide.Do not use a heavy water stream.	
5.2. Special hazards arising from the substance or mixture		
Hazardous decomposition products in case of fire	: Incomplete combustion releases dangerous carbon monoxide, carbon dioxide and other toxic gases.	
5.3. Advice for firefighters		
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.	

SECTION 6: Accidental release me	easures
6.1. Personal precautions, protective	equipment and emergency procedures
6.1.1. For non-emergency personnel Emergency procedures	: Ventilate spillage area. Avoid contact with skin and eyes.
6.1.2. For emergency responders Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2. Environmental precautions	
Avoid release to the environment.	

6.3. Methods and material for containment and cleaning up		
Methods for cleaning up Other information	Take up liquid spill into absorbent material.Dispose of materials or solid residues at an authorized site.	
6.4. Reference to other sections		

For further information refer to section 13.

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

SECTION 7: Handling and storage)
7.1. Precautions for safe handling	
Precautions for safe handling Hygiene measures	 Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product.
7.2. Conditions for safe storage, inclu	product. Always wash hands after handling the product.
Storage conditions Incompatible materials Storage temperature	 Store in a well-ventilated place. Keep cool. Butyl rubber. 5 - 40 °C

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

(2-methoxymethylethoxy)propanol (34590-94-8)		
EU - Occupational Exposure Limits		
Local name	(2-Methoxymethylethoxy)-propanol	
IOELV TWA (mg/m³)	308 mg/m ³	
IOELV TWA (ppm)	50 ppm	
Notes	Skin	
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC	
United Kingdom - Occupational Exposure Limits		
Local name	(2-methoxymethylethoxy) propanol	
WEL TWA (mg/m³)	308 mg/m³	
WEL TWA (ppm)	50 ppm	
Remark (WEL)	Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)	
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE	

2-aminoethanol (141-43-5)	
EU - Occupational Exposure Limits	
Local name	2-Aminoethanol
IOELV TWA (mg/m³)	2,5 mg/m³
IOELV TWA (ppm)	1 ppm
IOELV STEL (mg/m ³)	7,6 mg/m³
IOELV STEL (ppm)	3 ppm
Notes	Skin
Regulatory reference	COMMISSION DIRECTIVE 2006/15/EC
United Kingdom - Occupational Exposure Limits	
Local name	2-Aminoethanol
WEL TWA (mg/m³)	2,5 mg/m³

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

WEL TWA (ppm)	1 ppm
WEL STEL (mg/m³)	7,6 mg/m³
WEL STEL (ppm)	3 ррт
Remark (WEL)	Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Hand protection:					
Protective gloves					
Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Reusable gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	≥ 0.35		EN ISO 374

Eye protection:			
Safety glasses			
Туре	Use	Characteristics	Standard
Safety glasses	Droplet	clear	EN 166

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

Personal protective equipment symbol(s):



Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties		
Physical state	: Liquid	
Colour	: light green.	
Odour	: Perfume.	
Odour threshold	: No data available	
рН	: 9	
Relative evaporation rate (butylacetate=1)	: No data available	
Melting point	: Not applicable	

Auto-ignition temperature

Freezing point Boiling point

Flash point

: No data available

: No data available

: > 250 °C

: > 100 °C (1013 hPa)

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Decomposition temperature Flammability (solid, gas) Vapour pressure Relative vapour density at 20 °C Relative density Density Solubility Partition coefficient n-octanol/water (Log Pow) Viscosity, kinematic Viscosity, kinematic Viscosity, dynamic Explosive properties Oxidising properties	 200 °C Not applicable No data available No data available No data available ≈ 1,04 g/cm³ (20°C) Water: completely soluble < 3 9,615 mm²/s < 10 mPa⋅s at 20 °C No data available No data available No data available
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

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

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

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 (dermal) :	Not classified Not classified Not classified	
(2-methoxymethylethoxy)propanol (34590-94-	8)	
LD50 oral rat	> 5000 mg/kg (OECD 401 method)	
LD50 dermal rat	> 19020 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)	
LD50 dermal rabbit	9510 mg/kg (OECD 402 method)	
LC50 inhalation rat (ppm)	> 275 ppm (7h) (OECD 403 method)	
Alcohols, C9-11, ethoxylated (68439-46-3)		

LD50 oral rat > 5000 mg/kg	Alcohols, C9-11, ethoxylated (68439-46-3)	
	LD50 oral rat	> 5000 mg/kg

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

LD50 dermal	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 20 mg/l

Quaternary coco alkyl methyl amine ethoxylate methyl chloride (863679-20-3)	
LD50 oral rat	300 – 2000 mg/kg
Skin corrosion/irritation :	Causes skin irritation. pH: 9
Serious eye damage/irritation :	Causes serious eye damage. pH: 9
Respiratory or skin sensitisation	Not classified
Germ cell mutagenicity :	Not classified
Carcinogenicity	Not classified
Reproductive toxicity :	Not classified
STOT-single exposure	Not classified
STOT-repeated exposure	Not classified

(2-methoxymethylethoxy)propanol (34590-94-8)	
NOAEL (oral, rat, 90 days)	1000 mg/kg bodyweight Animal: rat, Guideline: other:KANPOGYO No.700, YAKUHATSU No. 1039.61, and KIKYKU No. 1014.
NOAEL (dermal, rat/rabbit, 90 days)	2850 mg/kg bodyweight Animal: rabbit, Animal sex: male, Guideline: OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study)
Aspiration hazard	: Not classified
BioSol XT	
Viscosity, kinematic	9,615 mm²/s

SECTION 12: Ecological information

12.1. Toxicity	
Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Not classified

(2-methoxymethylethoxy)propanol (34590-94-8)	
LC50 fish	> 1000 mg/l (96h, Poecilia reticulata, OESO 203 of equivalent)
EC50 Daphnia	1919 mg/l (48h, Daphnia magna, OESO 202 of equivalent)
EC50 other aquatic organisms 1	1930 mg/l Test organisms (species): other aquatic crustacea:Acartia tonsa
EC50 72h algae (1)	> 969 mg/l (72h, Pseudokirchneriella subcapitata, OESO 201 of equivalent)
EC50 96h algae (1)	> 969 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
LOEC (chronic)	0,5 mg/l Test organisms (species): Daphnia magna Duration: '22 d'
NOEC (chronic)	> 0,5 mg/l (22d, Daphnia magna, OESO 211 of equivalent)

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

12.2. Persistence and degradability		
(2-methoxymethylethoxy)propanol (34590-94-	8)	
Persistence and degradability	Readily biodegradable.	
Biodegradation	76 % (28d) (OESO 301F of equivalent)	
Alcohols, C9-11, ethoxylated (68439-46-3)		
Persistence and degradability	Readily biodegradable.	
BOD (% of ThOD)	> 60 % ThOD 28 d, Closed Bottle Test (OECD 301D)	
Quaternary coco alkyl methyl amine ethoxylat	te methyl chloride (863679-20-3)	
Persistence and degradability	Readily biodegradable.	
BOD (% of ThOD)	> 60 % ThOD 28 d, Closed Bottle Test (OECD 301D)	
12.3. Bioaccumulative potential		
BioSol XT		
Partition coefficient n-octanol/water (Log Pow)	< 3	
(2-methoxymethylethoxy)propanol (34590-94-	8)	
Partition coefficient n-octanol/water (Log Pow)	0,0043 (25°C) (OECD 107 method)	
Alcohols, C9-11, ethoxylated (68439-46-3)		
Partition coefficient n-octanol/water (Log Pow)	2,4	
Bioaccumulative potential	Bioaccumulation unlikely.	
Quaternary coco alkyl methyl amine ethoxylat	te methyl chloride (863679-20-3)	
Bioaccumulative potential	Bioaccumulation unlikely.	
12.4. Mobility in soil		
No additional information available		
12.5. Results of PBT and vPvB assessment		
Component		
(2-methoxymethylethoxy)propanol (34590-94-8)	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	
Alcohols, C9-11, ethoxylated (68439-46-3)	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	
Quaternary coco alkyl methyl amine ethoxylate methyl chloride (863679-20-3)	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	
	12.6. Other adverse effects	

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods

: Dispose of contents/container in accordance with licensed collector's sorting instructions.

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

Not regulated				
Net regulated				
Not regulated	Not regulated	Not regulated	Not regulated	
14.2. UN proper shipping name				
Not regulated	Not regulated	Not regulated	Not regulated	
14.3. Transport hazard class(es)				
Not regulated	Not regulated	Not regulated	Not regulated	
14.4. Packing group				
Not regulated	Not regulated	Not regulated	Not regulated	
14.5. Environmental hazards				
Not regulated	Not regulated	Not regulated	Not regulated	
s	Not regulated (es) Not regulated Not regulated Not regulated	Not regulated Not regulated SS(es) Not regulated Not regulated Not regulated Is Not regulated Not regulated Not regulated	Not regulated Not regulated Not regulated SS(es) Not regulated Not regulated Not regulated Not regulated Not regulated	

14.6. Special precautions for user

Overland transport Not regulated Transport by sea Not regulated Air transport Not regulated Inland waterway transport Not regulated Rail transport Not regulated

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

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

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

15.1.2. National regulations

No additional information available

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes:			
Section	Changed item	Change	Comments
2.2	Precautionary statements (CLP)	Modified	
4.1	First-aid measures after eye contact	Modified	

Abbreviations and acronyms:	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC50	Median effective concentration
IARC	International Agency for Research on Cancer
ΙΑΤΑ	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LD50	Median lethal dose
LC50	Median lethal concentration
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
РВТ	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
STP	Sewage treatment plant
TLM	Median Tolerance Limit
SDS	Safety Data Sheet
vPvB	Very Persistent and Very Bioaccumulative

Full text of H- and EUH-statements:	
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.

SDS EU (REACH Annex II)

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.