



Safety Data Sheet

According to Annex II to REACH - Regulation 2015/830

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

1.1. Product identifier

Code: **U01610**
Product name: **PERFORMA CL+**

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

Intended use: **Detergent for tanks.**
Uses advised against: **Different uses than those intended.**

1.3. Details of the supplier of the safety data sheet

Name: **CENTRO DISTRIBUZIONE UTENSILI SCPA**
Full address: **Via delle Gerole, 19**
District and Country: **20867 CAPONAGO (MB)**
ITALY

tel. **+39 02 95746081**fax. **+ 39 02 95745182**

e-mail address of the competent person
responsible for the Safety Data Sheet
Product distribution by:

info@cdu.net
CENTRO DISTRIBUZIONE UTENSILI SCPA

1.4. Emergency telephone number

For urgent inquiries refer to **CENTRO DISTRIBUZIONE UTENSILI SCPA**
+39 02 95746081 (Technical support - Office hour 8.30-12.30 - 13.30-17.30)

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2015/830. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

Carcinogenicity, category 1B	H350	May cause cancer.
Germ cell mutagenicity, category 2	H341	Suspected of causing genetic defects.
Specific target organ toxicity - repeated exposure, category 2	H373	May cause damage to organs through prolonged or repeated exposure.
Skin corrosion, category 1B	H314	Causes severe skin burns and eye damage.
Serious eye damage, category 1	H318	Causes serious eye damage.
Skin sensitization, category 1A	H317	May cause an allergic skin reaction.
Hazardous to the aquatic environment, chronic toxicity, category 3	H412	Harmful to aquatic life with long lasting effects.

2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:

Signal words: **DANGER**

Hazard statements:



H350	May cause cancer.
H341	Suspected of causing genetic defects.
H373	May cause damage to organs through prolonged or repeated exposure.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H412	Harmful to aquatic life with long lasting effects.
EUH071	Corrosive to the respiratory tract. Restricted to professional users.

Precautionary statements:

P260	Do not breathe dust / fume / gas / mist / vapours / spray.
P201	Obtain special instructions before use.
P305+P351+P338	IF IN EYES: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P303+P361+P353	IF ON SKIN (or hair): take off immediately all contaminated clothing. Rinse skin with water [or shower].
P280	Wear protective gloves/ protective clothing / eye protection / face protection.
P310	Immediately call a POISON CENTER / doctor if you feel unwell.

Contains: REACTION PRODUCTS OF PARAFORMALDEHYDE WITH 2-HYDROXYPROPYLAMINE (RATIO 1:1) [HPT];
DISODIUM METASILICATE;
BENZENESULFONIC ACID, 4-C10-13-SEC-ALKYL DERIVS.

Ingredients according to Regulation (EC) No. 648/2004

Less than 5%: phosphates, EDTA (ethylenediaminetetraacetic acid) sodium salt.
5% or over but less than 15%: anionic surfactants.

2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage \geq than 0,1%.

SECTION 3. Composition/information on ingredients**3.2. Mixtures**

Contains:

Identification	X = Conc. %	Classification 1272/2008 (CLP)
REACTION PRODUCTS OF PARAFORMALDEHYDE WITH 2-HYDROXYPROPYLAMINE (RATIO 1:1) [HPT]		
CAS	$7 \leq x \leq 10$	Carc. 1B H350, Muta. 2 H341, Acute Tox. 4 H302, Acute Tox. 4 H332, STOT RE 2 H373, Skin Corr. 1C H314, Eye Dam. 1 H318, Skin Sens. 1A H317, Aquatic Chronic 2 H411, EUH071
EC	-	
INDEX	612-291-00-7	
BENZENESULFONIC ACID, 4-C10-13-SEC-ALKYL DERIVS.		
CAS	$4,4 \leq x \leq 5,4$	Acute Tox. 4 H302, Skin Corr. 1C H314, Eye Dam. 1 H318, Aquatic Chronic 3 H412
EC	287-494-3	
INDEX	-	
Reg. no.	01-2119490234-40	
TRISODIUM ORTHOPHOSPHATE		
CAS	$2,5 \leq x \leq 4,5$	Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335
EC	231-509-8	
INDEX	-	
Reg. no.	01-2119489800-32	
2-(2-BUTOXYETHOXY)ETHANOL		
CAS	$2,6 \leq x \leq 3,6$	Eye Irrit. 2 H319
EC	203-961-6	
INDEX	603-096-00-8	
Reg. no.	01-2119475104-44	

**DISODIUM METASILICATE**

CAS 6834-92-0

2,6 ≤ x ≤ 3,6

Met. Corr. 1 H290, Skin Corr. 1B H314, Eye Dam. 1 H318, STOT SE 3 H335

EC 229-912-9

INDEX 014-010-00-8

Reg. no. 01-2119449811-37

(2-METHOXYMETHYLETHOXY)PROPANOL

CAS 34590-94-8

1,7 ≤ x ≤ 2,7

Substance with a community workplace exposure limit.

EC 252-104-2

INDEX

Reg. no. 01-2119450011-60

The full wording of hazard (H) phrases is given in section 16 of the sheet.

SECTION 4. First aid measures**4.1. Description of first aid measures**

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 30-60 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.

INGESTION: Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorised by a doctor.

INHALATION: Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

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

Specific information on symptoms and effects caused by the product are unknown.

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

Information for the doctor: symptomatically treatment.

SECTION 5. Firefighting measures**5.1. Extinguishing media**

SUITABLE EXTINGUISHING EQUIPMENT

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Do not breathe combustion products.

5.3. Advice for firefighters

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**



Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Keep containers away from any incompatible materials, see section 10 for details.

Storage class TRGS 510 (Germany): 6.1C

7.3. Specific end use(s)

Detergent for tanks.

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory References:

AUS	Österreich	Gesamte Rechtsvorschrift für Grenzwertverordnung 2018, Fassung vom 17.10.2018
BEL	Belgique	AR du 11/3/2002. La liste est mise à jour pour 2017
BGR	България	МИНИСТЕРСТВО НА ТРУДА И СОЦИАЛНАТА ПОЛИТИКА МИНИСТЕРСТВО НА ЗДРАВЕОПАЗВАНЕТО НАРЕДБА No 13 от 30 декември 2003 г (4 Септември 2018г)
CHE	Suisse / Schweiz	Valeurs limites d'exposition aux postes de travail en Suisse: valeurs VME/VLE. Version Juin 2019 (SUVA)
CYP	Κύπρος	Κ.Δ.Π. 268/2001; Κ.Δ.Π. 55/2004; Κ.Δ.Π. 295/2007; Κ.Δ.Π. 70/2012; Κ.Δ.Π. 16/2019
CZE	Česká Republika	Nařízení vlády č. 246/2018 Sb. Nařízení vlády, kterým se mění nařízení vlády č. 361/2007 Sb., kterým se stanoví podmínky ochrany zdraví při práci, ve znění pozdějších předpisů
DEU	Deutschland	TRGS 900 - Seite 1 von 69 (Fassung 29.03.2019)- Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte
DNK	Danmark	Bekendtgørelse om grænseværdier for stoffer og materialer - BEK nr 1458 af 13/12/2019
ESP	España	LÍMITES DE EXPOSICIÓN PROFESIONAL PARA AGENTES QUÍMICOS EN ESPAÑA 2019 (INSST)
EST	Eesti	Ohtlike kemikaalide ja neid sisaldavate materjalide kasutamise töötavishoiu ja tööhutuse nõuded ning töökeskonna keemiliste ohutegurite piirnormid [RT I, 17.10.2019, 1 - jõust. 17.01.2020]
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
FIN	Suomi	HTP-VÄRDEN 2018. Koncentrationer som befunnits skadliga. SOCIAL- OCH HÄLSOVÄRDSMINISTERIETS PUBLIKATIONER 10/2018
GRC	Ελλάδα	ΕΦΗΜΕΡΙΔΑ ΤΗΣ ΚΥΒΕΡΝΗΣΕΩΣ - ΤΕΥΧΟΣ ΠΡΩΤΟ Αρ. Φύλλου 152 - 21 Αυγούστου 2018
HUN	Magyarország	A pénzügyminiszter 7/2018. (VIII. 29.) PM rendelete a munkahelyek kémiai biztonságáról szóló 25/2000. (IX. 30.) EüM-SZCSM együ. Ttes rendelet módosításáról.
HRV	Hrvatska	Pravilnik o zaštiti radnika od izloženosti opasnim kemikalijama na radu, graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 91/18)
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81



IRL	Éire	2018 Code of Practice for the Chemical Agents Regulations Safety Authority
LUX	Luxembourg	Règlement grand-ducal du 20 juillet 2018 modifiant le règlement grand-ducal du 14 novembre 2016 concernant la protection de la sécurité et de la santé des salariés contre les risques liés à des agents chimiques sur le lieu de travail
LTU	Lietuva	LIETUVOS HIGIENOS NORMA HN 23:2011 „CHEMINIŲ MEDŽIAGŲ PROFESINIO POVEIKIO RIBINIAI DYDŽIAI. MATAVIMO IR POVEIKIO VERTINIMO BENDRIEJI REIKALAVIMAI. Nr. V-695/A1-272, 2018-06-12, paskelbta TAR 2018-06-15, i. k. 2018-09988
LVA	Latvija	KĪmisko vielu aroda ekspozīcijas robežvērtības (AER) darba vides gaisā 2018
MLT	Malta	LEGAL NOTICE 227 of 2003, as amended by Legal Notices 353 of 2007, 53 of 2012, 198 of 2015 and 57 of 2018
NOR	Norge	Fastsatt av Arbeids- og sosialdepartementet 21. august 2018 med hjemmel i lov 17. juni 2005 nr. 62 om arbeidsmiljø, arbeidstid, stillingsvern mv. (arbeidsmiljøloven) § 1-3, § 1-4 og § 4-5
NLD	Nederland	Regeling van de Staatssecretaris van Sociale Zaken en Werkgelegenheid van 13 juli 2018, 2018-0000118517 tot wijziging van de Arbeidsomstandighedenregeling in verband met de implementatie van Richtlijn 2017/164 in Bijlage XIII
PRT	Portugal	Ministério da Economia e do Emprego Consolida as prescrições mínimas em matéria de protecção dos trabalhadores contra os riscos para a segurança e a saúde devido à exposição a agentes químicos no trabalho - Diário da República, 1.ª série - N.º 111 - 11 de junho de 2018
POL	Polska	ROZPORZĄDZENIE MINISTRA RODZINY, PRACY I POLITYKI SPOŁECZNEJ z dnia 12 czerwca 2018 r
ROU	România	HOTĂRÂRE nr. 584 din 2 august 2018 pentru modificarea Hotărârii Guvernului nr. 1.218/2006 privind stabilirea cerințelor minime de securitate și sănătate în muncă pentru asigurarea protecției lucrătorilor împotriva riscurilor legate de prezența agenților chimici
SWE	Sverige	Hygieniska gränsvärden, AFS 2018:1
SVK	Slovensko	Nariadenie vlády č. 33/2018 Z. z. Nariadenie vlády Slovenskej republiky, ktorým sa mení a dopĺňa nariadenie vlády Slovenskej republiky č. 355/2006 Z. z. o ochrane zamestnancov pred rizikami súvisiacimi s expozíciou chemickým faktorom pri práci v znení neskorších predpisov
SVN	Slovenija	Uradni list Republike Slovenije 20.12.2019 - Uradnem listu RS št. 78/19 -PRAVILNIK o varovanju delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu
TUR	Türkiye	12.08.2013 Tarihli, 28733 Sayılı, Kimyasal Maddelerle Çalışmalarda Sağlık ve Güvenlik Önlemleri Hakkında Yönetmelik
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Third edition, published 2018)
EU	OEL EU	Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC.
	TLV-ACGIH	ACGIH 2020

BENZENESULFONIC ACID, 4-C10-13-SEC-ALKYL DERIVS.

Predicted no-effect concentration - PNEC			
Normal value in fresh water	0,287	mg/l	
Normal value in marine water	0,029	mg/l	
Normal value for fresh water sediment	0,287	mg/kg/d	
Normal value for marine water sediment	0,287	mg/kg/d	
Normal value for water, intermittent release	0,017	mg/l	
Normal value of STP microorganisms	3,43	mg/l	
Normal value for the terrestrial compartment	35	mg/kg/d	

Health - Derived no-effect level - DNEL / DMEL								
	Effects on consumers			Effects on workers				
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				0,85 mg/kg bw/d				
Inhalation			3 mg/m3	3 mg/m3			12 mg/m3	12 mg/m3
Skin				85 mg/kg bw/d				170 mg/kg bw/d

2-(2-BUTOXYETHOXY)ETHANOL

Threshold Limit Value				
Type	Country	TWA/8h	STEL/15min	Remarks / Observations

**CENTRO DISTRIBUZIONE UTENSILI SCPA**

Revision nr. 6

EN

Dated 15/12/2020

PERFORMA CL+

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Replaced revision:5 (Dated: 06/08/2019)

		mg/m3	ppm	mg/m3	ppm		
MAK	AUS	67,5	10	101,2	15		Häufigkeit pro Schicht:4x
TRK	AUS	67,5	10	101,2	15		
VLEP	BEL	67,5	10	101,2	15		
TLV	BGR	67,5	10	101,2	15		
MAK	CHE	67	10	101,2	15		
VME/VLE	CHE	67	10	101,2	15		
TLV	CZE	70	10,36	100	14,8		
AGW	DEU	67,5	10	100	15	INHAL	aerosol and vapour
MAK	DEU	67	10	100,5	15	INHAL	fraction and vapour
TLV	DNK	68	10	136	20		
VLA	ESP	67,5	10	101,2	15		
VLEP	FRA	68	10	101,2	15		
HTP	FIN	68	10				
TLV	GRC	67,5	10	101,2	15		
AK	HUN	67,5		101,2			
GVI/KGVI	HRV	67,5	10	101,2	15		
VLEP	ITA	67,5	10	101,2	15		
VL	LUX	67,5	10	101,2	15		
RD	LTU	67,5	10	101,2	15		
RV	LVA	67,5	10	101,2	15		
TLV	MLT	67,5	10	101,2	15		
TLV	NOR	68	10				
TGG	NLD		50		100		
VLE	PRT	67,5	10	101,2	15		
NDS/NDSch	POL	67		100			
TLV	ROU	67,5	10	101,2	15		
NGV/KGV	SWE	68	10	101	15		
NPEL	SVK	67,5	10	101,2	15		
MV	SVN	67,5	10	101,2	15		
ESD	TUR	67,5	10	101,2	15		
WEL	GBR	67,5	10	101,2	15		
OEL	EU	67,5	10	101,2	15		
TLV-ACGIH			10				

Predicted no-effect concentration - PNEC

Normal value in fresh water	1,1	mg/l
Normal value in marine water	0,11	mg/l
Normal value for fresh water sediment	4,4	mg/kg
Normal value for marine water sediment	0,44	mg/kg
Normal value for water, intermittent release	11	mg/l
Normal value of STP microorganisms	200	mg/l
Normal value for the terrestrial compartment	0,32	mg/kg



Health - Derived no-effect level - DNEL / DMEL

Effects on consumers

Effects on workers

Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				5 mg/kg bw/d				
Inhalation	60,7 mg/m3		40,5 mg/m3	40,5 mg/m3	101,2 mg/m3		67,5 mg/m3	67,5 mg/m3
Skin				50 mg/kg bw/d				83 mg/kg bw/d

(2-METHOXYMETHYLETHOXY)PROPANOL

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
MAK	AUS	307	50	614	100	SKIN
TRK	AUS	307	50	614	100	STEL:5(Mow), Häufigkeit/Sch:8x
VLEP	BEL	308	50			SKIN
TLV	BGR	308	50			SKIN
MAK	CHE	300	50	300	50	
VME/VLE	CHE	300	50	300	50	
TLV	CYP	308	50			SKIN
TLV	CZE	270	43,74	550	89,1	SKIN
AGW	DEU	310	50	310	50	
MAK	DEU	310	50	310	50	
TLV	DNK	309	50	618	100	SKIN
VLA	ESP	308	50			SKIN
TLV	EST	308	50			SKIN
VLEP	FRA	308	50			SKIN
HTP	FIN	310	50			SKIN
TLV	GRC	600	100	900	150	
AK	HUN	308				
GVI/KGVI	HRV	308	50			SKIN
VLEP	ITA	308	50			SKIN
OELV	IRL	308	50			SKIN
VL	LUX	308	50			SKIN
RD	LTU	300	50	450	75	SKIN
RV	LVA	308	50			SKIN
TLV	MLT	308	50			SKIN
TLV	NOR	300	50			SKIN
TGG	NLD	300				
VLE	PRT	308	50			SKIN
NDS/NDSch	POL	240		480		SKIN
TLV	ROU	308	50			SKIN
NGV/KGV	SWE	300	50	450	75	SKIN
NPEL	SVK	308	50			SKIN
MV	SVN	308	50			SKIN

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ESD	TUR	308	50	SKIN	
WEL	GBR	308	50	SKIN	
OEL	EU	308	50	SKIN	
TLV-ACGIH			100	150	SKIN

Predicted no-effect concentration - PNEC

Normal value in fresh water	19	mg/l
Normal value in marine water	1,9	mg/l
Normal value for fresh water sediment	70,2	mg/kg
Normal value for marine water sediment	7,02	mg/kg
Normal value for water, intermittent release	190	mg/l
Normal value of STP microorganisms	4168	mg/l
Normal value for the terrestrial compartment	2,74	mg/kg

Health - Derived no-effect level - DNEL / DMEL

Effects on consumers

Effects on workers

Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				36 mg/kg bw/d				
Inhalation				37,2 mg/m3				308 mg/m3
Skin				121 mg/kg bw/d				283 mg/kg bw/d

FORMALDEHYDE**Threshold Limit Value**

Type	Country	TWA/8h	STEL/15min	Remarks / Observations
		mg/m3	ppm	
MAK	AUS	0,37	0,3	0,74 (C) 0,6 (C)
TRK	AUS	0,37	0,3	0,74 (C) 0,6 (C)
VLEP	BEL			0,38 0,3
MAK	CHE	0,37	0,3	0,74 0,6
VME/VLE	CHE	0,37	0,3	0,74 0,6
TLV	CZE	0,5		1 SKIN
AGW	DEU	0,37	0,3	0,74 0,6
MAK	DEU	0,37	0,3	0,74 (C) 0,6 (C)
TLV	DNK	0,4	0,3	0,4 (C) 0,3 (C)
VLA	ESP	0,37	0,3	0,74 0,6
TLV	EST	0,6	0,5	1,2 (C) 1 (C)
VLEP	FRA			0,5 1
HTP	FIN	0,37	0,3	1,2 (C) 1 (C)
AK	HUN	0,6		0,6
OELV	IRL		0,2	0,4
RV	LVA	0,5		
TGG	NLD	0,15		0,5
NDS/NDSch	POL	0,37		0,74
NGV/KGV	SWE	0,37	0,3	0,74 0,6
NPEL	SVK	0,37	0,3	0,74



WEL	GBR	2,5	2	2,5	2
OEL	EU	0,37	0,3	0,74	0,6
TLV-ACGIH				0,37 (C)	0,3 (C)

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

The product must be used inside a closed circuit, in a well-ventilated environment and with strong localised aspiration systems in place.

Exposure levels must be kept as low as possible to avoid significant build-up in the organism. Manage personal protective equipment so as to guarantee maximum protection (e.g. reduction in replacement times).

HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

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

Appearance	clear liquid
Colour	light yellow
Odour	typical
Odour threshold	Not available
pH	12 – 13
Melting point / freezing point	Not available
Initial boiling point	> 100 °C
Boiling range	Not available
Flash point	> 100 °C
Evaporation Rate	Not available
Flammability of solids and gases	Not applicable
Lower inflammability limit	Not available



Upper inflammability limit	Not available
Lower explosive limit	Not available
Upper explosive limit	Not available
Vapour pressure	Not available
Vapour density	Not available
Relative density	1,05 - 1,07 kg/l (20° C)
Solubility	in water: total; in acetone: partial
Partition coefficient: n-octanol/water	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	Not available
Explosive properties	Not available
Oxidising properties	Not available
9.2. Other information	
VOC (Directive 2010/75/EC) :	12,70 %

SECTION 10. Stability and reactivity

10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

BENZENESULFONIC ACID, 4-C10-13-SEC-ALKYL DERIVS.
Reacts with: alkalis, alkaline earth metals.

10.2. Chemical stability

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

DISODIUM METASILICATE

Develops hydrogen on contact with: aluminium, zinc, tin. May react violently with: acids. May react with: sugar residues to form carbon monoxide.

10.4. Conditions to avoid

None in particular. However the usual precautions used for chemical products should be respected.

BENZENESULFONIC ACID, 4-C10-13-SEC-ALKYL DERIVS.

Avoid exposure to: naked flames, sparks, sources of ignition.

2-(2-BUTOXYETHOXY)ETHANOL

Avoid exposure to: heat (long period), flames, ignition sources.

(2-METHOXYMETHYLETHOXY)PROPANOL

Avoid exposure to: naked flames, sparks, sources of ignition.

10.5. Incompatible materials

BENZENESULFONIC ACID, 4-C10-13-SEC-ALKYL DERIVS.

Incompatible materials: metals. Incompatible with: oxidising agents.

2-(2-BUTOXYETHOXY)ETHANOL

Incompatible with: strong acids, strong alkalis, strong oxidising agents.

(2-METHOXYMETHYLETHOXY)PROPANOL

Incompatible with: oxidising agents, acids, bases. Incompatible materials: aluminium.

10.6. Hazardous decomposition products

REACTION PRODUCTS OF PARA-FORMALDEHYDE WITH 2-HYDROXYPROPYLAMINE (RATIO 1:1) [HPT];

When heated to decomposition releases: carbon oxides, nitric oxide, fumes.

BENZENESULFONIC ACID, 4-C10-13-SEC-ALKYL DERIVS.



When heated to decomposition releases: sulphurous anhydride, hydrogen sulfide, carbon oxides, sulphur oxides.

2-(2-BUTOXYETHOXY)ETHANOL

When heated to decomposition releases: carbon oxides.

(2-METHOXYMETHYLETHOXY)PROPANOL

In decomposition develops: carbon oxides.

SECTION 11. Toxicological information

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

11.1. Information on toxicological effects

Metabolism, toxicokinetics, mechanism of action and other information

Information not available.

Information on likely routes of exposure

2-(2-BUTOXYETHOXY)ETHANOL

WORKERS: inhalation; contact with the skin.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

2-(2-BUTOXYETHOXY)ETHANOL

May be absorbed by inhalation, ingestion and skin contact; is irritating for the skin and especially for the eyes. May cause damage to the spleen. At room temperature the danger of inhalation is unlikely, due to the low vapour pressure of the substance.

Interactive effects

Information not available.

ACUTE TOXICITY

ATE (Inhalation) of the mixture:

> 20 mg/l

ATE (Oral) of the mixture:

> 2000 mg/kg

ATE (Dermal) of the mixture:

Not classified (no significant component)

Corrosive to the respiratory tract.

BENZENESULFONIC ACID, 4-C10-13-SEC-ALKYL DERIVS.

LD50 (Oral)

1470 mg/kg dw Rat (OECD 401)

LD50 (Dermal)

> 2000 mg/kg dw Rat (OECD 402)

DISODIUM METASILICATE

LD50 (Oral)

1152 mg/kg Rat

LD50 (Dermal)

> 5000 mg/kg Rat

LC50 (Inhalation)

> 2,06 g/m³ Rat

(2-METHOXYMETHYLETHOXY)PROPANOL

LD50 (Oral)

> 5000 mg/kg Rat

LD50 (Dermal)

> 9510 mg/kg bw/day Rabbit

LC50 (Inhalation)

> 275 ppm/7h Rat

2-(2-BUTOXYETHOXY)ETHANOL

LD50 (Oral)

2410 mg/kg Mouse (male)

LD50 (Dermal)

2764 mg/kg Rabbit

LC50 (Inhalation)

> 29 ppm/2h Rat

REACTION PRODUCTS OF PARAFORMALDEHYDE WITH 2-HYDROXYPROPYLAMINE (RATIO 1:1) [HPT];

LD50 (Oral)

960 mg/kg Ratto (OECD 401)

LD50 (Dermal)

> 2000 mg/kg Ratto (OECD 402)

LC50 (Inhalation)

> 2 mg/l/4h (OECD 436)

**SKIN CORROSION / IRRITATION**

Corrosive for the skin. Classification according to the experimental pH value.

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage.

RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin.

GERM CELL MUTAGENICITY

Suspected of causing genetic defects.

CARCINOGENICITY

May cause cancer.

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class.

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class.

STOT - REPEATED EXPOSURE

May cause damage to organs.

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class.

SECTION 12. Ecological information

This product is dangerous for the environment and the aquatic organisms. In the long term, it have negative effects on aquatic environment.

12.1. Toxicity**BENZENESULFONIC ACID, 4-C10-13-SEC-ALKYL DERIVS.**

LC50 - for Fish	1,67 mg/l/96h <i>Lepomis macrochirus</i>
EC50 - for Crustacea	2,9 mg/l/48h <i>Daphnia magna</i>
EC50 - for Algae / Aquatic Plants	47,3 mg/l/72h <i>Scenedesmus subspicatus</i>
Chronic NOEC for Fish	1 mg/l 28d - <i>Lepomis macrochirus</i> (OECD 204)

DISODIUM METASILICATE

LC50 - for Fish	210 mg/l/96h <i>Brachydanio rerio</i>
EC50 - for Crustacea	1700 mg/l/48h <i>Daphnia magna</i>

(2-METHOXYMETHYLETHOXY)PROPANOL

LC50 - for Fish	> 1000 mg/l/96h <i>Poecilia reticulata</i>
EC50 - for Crustacea	1919 mg/l/48h <i>Daphnia magna</i>
EC50 - for Algae / Aquatic Plants	> 969 mg/l/72h <i>Selenastrum capricnutum</i>

2-(2-BUTOXYETHOXY)ETHANOL

LC50 - for Fish	1300 mg/l/96h <i>Lepomis macrochirus</i>
EC50 - for Crustacea	> 1000 mg/l/48h <i>Daphnia magna</i>



REACTION PRODUCTS OF PARAFORMALDEHYDE WITH 2-HYDROXYPROPYLAMINE (RATIO 1:1) [HPT]
LC50 - for Fish > 100 mg/l/96h Oncorhynchus mykiss (OECD 203)
EC50 - for Crustacea 29 mg/l/48h Daphnia magna (OECD 202)
EC50 - for Algae / Aquatic Plants 3,9 mg/l/72h (OECD 201)

12.2. Persistence and degradability

BENZENESULFONIC ACID, 4-C10-13-SEC-ALKYL DERIVS.

Solubility in water Miscible
Rapidly degradable >70% OECD 301A/ ISO 7827 / EEC 92/69/V, C4-A

TRISODIUM ORTHOPHOSPHATE

Solubility in water Completely miscible
Degradability: information not available

DISODIUM METASILICATE

Solubility in water Soluble
Degradability: information not available

(2-METHOXYMETHYLETHOXY)PROPANOL

Solubility in water Soluble
Rapidly degradable

2-(2-BUTOXYETHOXY)ETHANOL

Rapidly degradable 80-93% - 28d (OECD 301C)

REACTION PRODUCTS OF PARAFORMALDEHYDE WITH 2-HYDROXYPROPYLAMINE (RATIO 1:1) [HPT]

Rapidly degradable 63% - 28d (OECD 301D)

12.3. Bioaccumulative potential

BENZENESULFONIC ACID, 4-C10-13-SEC-ALKYL DERIVS.

Partition coefficient: n-octanol/water 3,2 Log Kow

2-(2-BUTOXYETHOXY)ETHANOL

Partition coefficient: n-octanol/water 1 Log Kow

12.4. Mobility in soil

Information not available.

12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage \geq than 0,1%.

12.6. Other adverse effects

Information not available.

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be



evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information

14.1. UN number

ADR / RID, IMDG, IATA: 3267

14.2. UN proper shipping name

ADR / RID: CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (AMINE - DISODIUM METASILICATE)

IMDG: CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (AMINE - DISODIUM METASILICATE)

IATA: CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (AMINE - DISODIUM METASILICATE)

14.3. Transport hazard class(es)

ADR / RID: Class: 8 Label: 8

IMDG: Class: 8 Label: 8

IATA: Class: 8 Label: 8



14.4. Packing group

ADR / RID, IMDG, IATA: II

14.5. Environmental hazards

ADR / RID: NO

IMDG: NO

IATA: NO

14.6. Special precautions for user

ADR / RID:	HIN - Kemler: 80	Limited Quantities: 1 L	Tunnel restriction code: (E)
	Special Provision: -		
IMDG:	EMS: F-A, S-B	Limited Quantities: 1 L	
IATA:	Cargo:	Maximum quantity: 30 L	Packaging instructions: 855
	Pass.:	Maximum quantity: 1 L	Packaging instructions: 851
	Special Instructions:	A3, A803	

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

Information not relevant.



SECTION 15. Regulatory information

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

Seveso Category - Directive 2012/18/EC: None.

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Product

Point 3

Contained substance

Point 28	REACTION PRODUCTS OF PARAFORMALDEHYDE WITH 2-HYDROXYPROPYLAMINE (RATIO 1:1) [HPT];
Point 55	2-(2-BUTOXYETHOXY)ETHANOL Reg. no.: 01-2119475104-44

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage \geq than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None.

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None.

Substances subject to the Rotterdam Convention:

None.

Substances subject to the Stockholm Convention:

None.

Healthcare controls

Workers exposed to this health-dangerous chemical agent must undergo sanitary checks carried out in compliance with 2004/37/EC directive.

Regulation (EC) No. 648/2004

Ingredients according to Regulation (EC) No. 648/2004.

German regulation on the classification of substances hazardous to water (AwSV, vom 18. April 2017)

WGK 3: Severe hazard to waters.

15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the mixture.

SECTION 16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Met. Corr. 1	Substance or mixture corrosive to metals, category 1
Carc. 1B	Carcinogenicity, category 1B
Muta. 2	Germ cell mutagenicity, category 2
Acute Tox. 4	Acute toxicity, category 4
STOT RE 2	Specific target organ toxicity - repeated exposure, category 2
Skin Corr. 1B	Skin corrosion, category 1B
Skin Corr. 1C	Skin corrosion, category 1C
Eye Dam. 1	Serious eye damage, category 1



Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
STOT SE 3	Specific target organ toxicity - single exposure, category 3
Skin Sens. 1A	Skin sensitization, category 1A
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic toxicity, category 2
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3
H290	May be corrosive to metals.
H350	May cause cancer.
H341	Suspected of causing genetic defects.
H302	Harmful if swallowed.
H332	Harmful if inhaled.
H373	May cause damage to organs through prolonged or repeated exposure.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H335	May cause respiratory irritation.
H317	May cause an allergic skin reaction.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH071	Corrosive to the respiratory tract.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).



Classification and procedure used to derive it in accordance with Regulation (EC) 1272/2008 (CLP) in relation to mixtures:

Classification according to Regulation (EC) No. 1272/2008	Classification procedure
Carc. 1B H350	Calculation method
Muta. 2 H341	Calculation method
STOT RE 2 H373	Calculation method
Skin Corr. 1B H314	Calculation method and on the basis of experimental data
Eye Dam. 1 H318	Calculation method
Skin Sens. 1A H317	Calculation method
Aquatic Chronic 3 H412	Calculation method

GENERAL BIBLIOGRAPHY

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 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
 3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
 4. Regulation (EU) 2015/830 of the European Parliament
 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
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 16. Regulation (EU) 2019/521 (XII Atp. CLP)
- The Merck Index. - 10th Edition
 - Handling Chemical Safety
 - INRS - Fiche Toxicologique (toxicological sheet)
 - Patty - Industrial Hygiene and Toxicology
 - N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
 - IFA GESTIS website
 - ECHA website
 - Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

Changes to previous review:

The following sections were modified:

01 / 02 / 03 / 07 / 08 / 09 / 10 / 11 / 12 / 14 / 15 / 16.