

Conforms to Reg. (EU) 878/2020

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Revision n° 4
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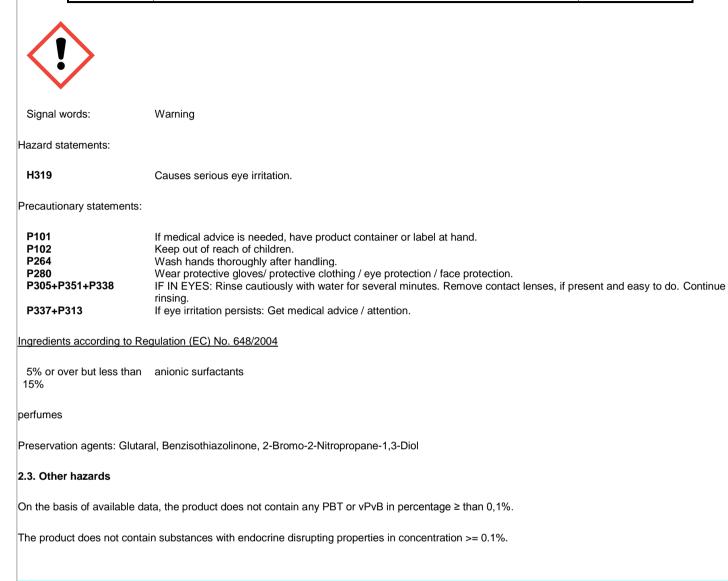
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SECTION 1. Identification of the subs	tance/mixture and of	f the company/ur	ndertaking
1.1. Product identifier			
1.1. Product identifier Code:	026 020		
	036_030 BLACK and dark Clothes		
Product name UFI :	QXD3-H064-5006-X0JG		
	QXD3-11004-3000-X03G		
1.2. Relevant identified uses of the substance or n	nixture and uses advised aga	ainst	
Identified Uses	Industrial	Professional	Consumer
laundry detergent	-		
		V	✓
Uses Advised Against			
Do not use for uses other than those indicated			
1.3. Details of the supplier of the safety data sheet			
Name	NEW FADOR S.r.I.		
Full address	via Mario Calderara, 31		
District and Country	25018 Montichiari (BS)		
	Italia		
	Tel. +39 030961 243		
	www.newfador.it		
e-mail address of the competent person			
	-		
responsible for the Safety Data Sheet	info@newfador.it		
1.4. Emergency telephone number			
For urgent inquiries refer to	NEW FADOR S.r.I.		
	+39 030961 243		
	+39 030901 243		
	(08.30 - 17.30)		
SECTION 2. Hazards identification			
2.1. Classification of the substance or mixture			
The product is classified as hazardous pursuant to the			
supplements). The product thus requires a safety datas	heet that complies with the pro	visions of (EU) Regulation	on 2020/878.
Any additional information concerning the risks for healt	h and/or the environment are g	given in sections 11 and	12 of this sheet.
Hazard classification and indication:			
Eye irritation, category 2	H319	Causes serious eye i	irritation
Ranked based on study results			
ICE-PH-14/0764			
2.2. Label elements			
Land the line survey to EQ Devide the 4070/0000			
Hazard labelling pursuant to EC Regulation 1272/2008	(CLP) and subsequent amend	ments and supplements.	
Hazard pictograms:			



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SECTION 3. Composition/information on ingredients

3.1. Substances

Information not relevant

3.2. Mixtures

Contains:

Identification	x = Conc. %	Classification 1272/2008 (CLP)		
BENZENESULFONIC ACID, C10- 13-ALKYL DERIVS., SODIUM SALTS				
CAS 68411-30-3	5≤x< 6	Acute Tox. 4 H302, Eye Dam. 1 H318, Skin Irrit. 2 H315, Aquatic Chronic 3 H412		



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EC 270-115-0		LD50 Oral: 1080 mg/kg
INDEX -		
REACH Reg. 01-2119489428-22		
ALCOHOLS, C12-14, ETHOXYLATED, SULFATES, SODIUM SALTS CAS 68891-38-3	3,5≤x< 4	Eye Dam. 1 H318,
EC 500-234-8		Skin Irrit. 2 H315, Aquatic Chronic 3 H412 Eye Dam. 1 H318: ≥ 10%,
		Eye Irrit. 2 H319: ≥ 5%
INDEX -		
REACH Reg. 01-2119488639-16		
2-BROMO-2-NITROPROPAN-1,3- DIOL		
CAS 52-51-7	0 ≤ x < 0,05	Acute Tox. 4 H302, Acute Tox. 4 H312, Eye Dam. 1 H318, Skin Irrit. 2 H315, STOT SE 3 H335, Aquatic Acute 1 H400 M=10, Aquatic Chronic 2 H411
EC 200-143-0		STA Oral: 500 mg/kg, STA Dermal: 1100 mg/kg
INDEX 603-085-00-8		
REACH Reg. 01-2119980938-15		
MORPHOLINE		
CAS 110-91-8	0 ≤ x < 0,05	Flam. Liq. 3 H226, Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4 H332, Skin Corr. 1B H314, Eve Dam. 1 H318
EC 203-815-1		LD50 Oral: 1050 mg/kg, STA Dermal: 1100 mg/kg, STA Inhalation vapours:
INDEX 613-028-00-9		11 mg/l
REACH Reg. 01-2119496057-30		

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 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Wash contaminated clothing before using it again. INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately. INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

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



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Information not available

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 firefighting 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



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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.

7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory References:

BGR	България	НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г. ЗА ЗАЩИТА НА РАБОТЕЩИТЕ ОТ РИСКОВЕ, СВЪРЗАНИ С ЕКСПОЗИЦИЯ НА ХИМИЧНИ АГЕНТИ ПРИ РАБОТА (изм. ДВ. бр.5 от 17 Януари
		2020r.)
CZE	Česká Republika	Nařízení vlády č. 41/2020 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	Technischen Regeln für Gefahrstoffe (TRGS 900) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte.
DEO	Deutschland	MAK- und BAT-Werte-Liste 2020, Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe, Mitteilung 56
	Deversed	
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 2021
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
GRC	Ελλάδα	Π.Δ. 26/2020 (ΦΕΚ 50/Α` 6.3.2020) Εναρμόνιση της ελληνικής νομοθεσίας προς τις διατάξεις των οδηγιών 2017/2398/ΕΕ, 2019/130/ΕΕ και 2019/983/ΕΕ «για την τροποποίηση της οδηγίας 2004/37/ΕΚ ``σχετικά με
		την προστασία των εργαζομένων από τους κινδύνους που συνδέονται με την έκθεση σε καρκινογόνους ή μεταλλαξινόνους παράνοντες κατά την εργασία``»
HUN	Magyarország	Az innovációért és technológiáért felelős miniszter 5/2020. (II. 6.) ITM rendelete a kémiai kóroki tényezők
		hatásának kitett munkavállalók egészségének és biztonságának védelméről
HRV	Hrvatska	Pravilnik o izmjenama i dopunama Pravilnika o zaštiti radnika od izloženosti opasnimkemikalijama na radu, graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 1/2021)
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
NLD	Nederland	Arbeidsomstandighedenregeling, Lijst van wettelijke grenswaarden op grond van de artikelen 4.3, eerste
		lid, en 4.16, eerste lid, van het Arbeidsomstandighedenbesluit
PRT	Portugal	Decreto-Lei n.º 1/2021 de 6 de janeiro, valores-limite de exposição profissional indicativos para os agentes guímicos. Decreto-Lei n.º 35/2020 de 13 de julho, proteção dos trabalhadores contra os riscos ligados à
		exposição durante o trabalho a agentes cancerígenos ou mutagénicos
POL	Polska	Rozporzadzenie ministra rozporządzenie w technologii z dnia 18 lutego 2021 r. Zmieniające rozporządzenie
FOL	FUISKa	w sprawie najwyższych dopuszczalnych stężeń i najteżeń czynników szkodliwych dla zdrowia w
		środowisku pracy
SVK	Slovensko	slodowisku pracy NARIADENIE VLÁDY Slovenskej republiky z 12. augusta 2020, ktorým sa mení a dopĺňa nariadenie vlády
SVR	SIOVEIISKO	
		Slovenskej republiky č. 356/2006 Z. z. o ochrane zdravia zamestnancov pred rizikami súvisiacimi s
		expozíciou karcinogénnym a mutagénnym faktorom pri práci v znení neskorších predpisov
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Fourth Edition 2020)
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, C10-13-ALKYL DERIVS., SODIUM SALTS

Predicted no-effect concentration - PNEC			
Normal value in fresh water	0,268	mg/l	
Normal value in marine water	0,027	mg/l	
Normal value for fresh water sediment	8,1	mg/kg	



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Normal value for marine wate	er sediment			6,8	mg	/kg		
Normal value for water, intern	nittent release			0,017	mg	/I		
Normal value of STP microor	ganisms			3,43	mg	/I		
Normal value for the terrestria	al compartment			35	mg	/kg		
Health - Derived no-effe	ct level - DNEL / DI Effects on consumers	ЛЕL			Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				0,425 mg/kg		Systemic		Systemic
Inhalation			1,5	bw/d 1,5 mg/m3			6	6 mg/m3
Skin				42,5 mg/kg bw/d				85 mg/kg bw/d
ALCOHOLS, C12-14, ET Predicted no-effect concentra	HOXYLATED, SUL	FATES, SODIUI	VI SALTS					
Normal value in fresh water				0,24	mg	//		
Normal value in marine water								
				0,024	mg			
Normal value for fresh water				0,917	mg	-		
Normal value for marine wate				0,092	mg	-		
Normal value for water, intern				0,071	mg	/1		
Normal value of STP microor	-			10	g/l	//		
Normal value for the terrestria	•			7,5	mg	/кд		
Health - Derived no-effe	Ct level - DNEL / DI Effects on consumers	NEL			Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				15 mg/kg				
Inhalation				bw/d 52 mg/m3				175 mg/m3
Skin				1650 mg/kg bw/d				2750 mg/k bw/d
2-BROMO-2-NITROPRO Predicted no-effect concentra	/							
Normal value in fresh water				0,01	mg	/I		
Normal value in marine water				0,001	mg	/I		
Normal value for fresh water	sediment			0,041	mg	/kg		
Normal value for marine wate	r sediment			0,003	mg	/kg		
Normal value for water, intern	nittent release			0,003	mg	/I		
				0,43	mg	/I		
Normal value of STP microor	ganisms							
	-			0,5	mg	/kg		
Normal value of STP microor	al compartment ct level - DNEL / DI Effects on	ИЕL		0,5	Effects on	/kg		
Normal value of STP microor Normal value for the terrestria Health - Derived no-effe	al compartment ct level - DNEL / DI	MEL Acute systemic	Chronic local	Chronic	-	Acute	Chronic local	Chronic
Normal value of STP microord	al compartment ct level - DNEL / DI Effects on consumers		Chronic local	Chronic systemic 0,35 mg/kg	Effects on workers	-	Chronic local	Chronic systemic
Normal value of STP microor Normal value for the terrestria Health - Derived no-effer Route of exposure	al compartment ct level - DNEL / DI Effects on consumers	Acute systemic	Chronic local	Chronic systemic	Effects on workers	Acute	Chronic local 4,2 mg/m3	



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MORPHOLINE Threshold Limit Value	ue							
Гуре	Country	TWA/8h		STEL/15min		Remarks Observa		
		mg/m3	ppm	mg/m3	ppm			
TLV	BGR	20				SKIN		
TLV	CZE	35		70		SKIN		
AGW	DEU	36	10	72	20	SKIN		
MAK	DEU	36	10	72	20			
TLV	DNK	36	10			SKIN		
VLA	ESP	36	10	72	20			
VLEP	FRA	36	10	72	20			
TLV	GRC	36	10	72	20			
AK	HUN	70		70		SKIN		
GVI/KGVI	HRV	36	10	72	20	SKIN		
VLEP	ITA	36	10	72	20	SKIN		
TGG	NLD	36	10	72	20	SKIN		
VLE	PRT	36	10	72	20			
NDS/NDSCh	POL	36		72				
NPEL	SVK	36	10	72				
WEL	GBR	36	10	72	20	SKIN		
OEL	EU	36	10	72	20			
TLV-ACGIH		71	20			SKIN		
Predicted no-effect conc	entration - PNEC							
Normal value in fresh wa	ater			0,1	mg	ı/I		
Normal value in marine v	water			0,01	mg	ı/I		
Normal value for fresh w	ater sediment			0,01	mg	ı/kg		
Normal value for marine	water sediment			1,49	mg	ı/kg		
Normal value for water, i	intermittent release			0,28	mg	ı/I		
Normal value of STP mid	croorganisms			10	mg	ı/I		
Normal value for the terr	estrial compartment			0,239	mg	ı/kg		
Health - Derived no-	effect level - DNEL / Effects on consumers	DMEL			Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral		38 mg/kg bw/d		6,3 mg/kg		0,0001110		5,0001110
Inhalation	18 mg/m3		3,2 mg/m3	bw/d 45 mg/m3			36 mg/m3	91 mg/m3
Skin				0,52 mg/kg bw/d				1,04 mg/k bw/d

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.



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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.

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 I 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.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties Appearance	Value liquid	Information
Colour	white opaque	
Odour	characteristic	
Melting point / freezing point	Not available	
Initial boiling point	Not available	
Flammability	Not available	
Lower explosive limit	Not available	
Upper explosive limit	Not available	
Flash point	Not available	
Auto-ignition temperature	Not available	
Decomposition temperature	Not available	
pH	8	
Kinematic viscosity	Not available	
Dynamic viscosity	200 ± 50 mPa*s	
Solubility	soluble in water	



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Partition coefficient: n-octanol/water	Not available
Vapour pressure	Not available
Density and/or relative density	1,013
Relative vapour density	Not available
Particle characteristics	Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes Information not available

9.2.2. Other safety characteristics

Information not available Explosive properties

Oxidising properties

not classified as explosive, contains no explosive substances according to CLP Art. (14 (2)) the product is not an oxidizing substance

SECTION 10. Stability and reactivity

10.1. Reactivity

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

2-BROMO-2-NITROPROPAN-1,3-DIOL Decomposes on contact with: water, metals, strong bases.

MORPHOLINE On contact with: strong oxidising agents, reducing agents, strong acids, strong bases. May develop: heat.

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.

10.4. Conditions to avoid

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

2-BROMO-2-NITROPROPAN-1,3-DIOL Avoid exposure to: light, UV rays, moisture.

10.5. Incompatible materials

Information not available

10.6. Hazardous decomposition products



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2-BROMO-2-NITROPROPAN-1,3-DIOL May develop: nitric oxide, carbon oxides, hydrobromic acid.

SECTION 11. Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008 Metabolism, toxicokinetics, mechanism of action and other information Information not available Information on likely routes of exposure Information not available Delayed and immediate effects as well as chronic effects from short and long-term exposure Information not available Interactive effects Information not available ACUTE TOXICITY ATE (Inhalation) of the mixture: Not classified (no significant component) >2000 mg/kg ATE (Oral) of the mixture: ATE (Dermal) of the mixture: Not classified (no significant component) BENZENESULFONIC ACID, C10-13-ALKYL DERIVS., SODIUM SALTS LD50 (Oral): 1080 mg/kg rat LD50 (Dermal): > 2000 mg/kg rat ALCOHOLS, C12-14, ETHOXYLATED, SULFATES, SODIUM SALTS LD50 (Oral): > 2000 mg/kg rat LD50 (Dermal): > 2000 mg/kg rat 2-BROMO-2-NITROPROPAN-1,3-DIOL LD50 (Oral): 254 mg/kg rat STA (Òral): 500 mg/kg estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture) LD50 (Dermal): 64 mg/kg rat STA (Dermal): 1100 mg/kg estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture) LC50 (Inhalation mists/powders): 0,588 mg/l/4h rat MORPHOLINE LD50 (Oral): 1050 mg/kg Rat LD50 (Dermal): 500 mg/kg Rabbit STA (Dermal): 1100 mg/kg estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture) LC50 (Inhalation vapours): 35,1 mg/l/1h Rat STA (Inhalation vapours): 11 mg/l estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture) **SKIN CORROSION / IRRITATION** Does not meet the classification criteria for this hazard class **SERIOUS EYE DAMAGE / IRRITATION** Causes serious eye irritation

SERIOUS EYE DAMAGE / IRRITATION Causes serious eye irritation RESPIRATORY OR SKIN SENSITISATION Does not meet the classification criteria for this hazard class GERM CELL MUTAGENICITY Does not meet the classification criteria for this hazard class CARCINOGENICITY Does not meet the classification criteria for this hazard class



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 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

 Does not meet the classification criteria for this hazard class

 STOT - REPEATED EXPOSURE

 Does not meet the classification criteria for this hazard class

 ASPIRATION HAZARD

 Does not meet the classification criteria for this hazard class

11.2. Information on other hazards

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

SECTION 12. Ecological information

12.1. Toxicity

MORPHOLINE	
LC50 - for Fish	179 mg/l/96h
EC50 - for Crustacea	45 mg/l/48h
EC50 - for Algae / Aquatic Plants	51 mg/l/72h
Chronic NOEC for Algae / Aquatic Plants	31 mg/l 72h
2-BROMO-2-NITROPROPAN-1,3-DIOL	
LC50 - for Fish	20 mg/l/96h Oncorhynchus mykiss
EC50 - for Crustacea	1,6 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants	0,25 mg/l/72h
Chronic NOEC for Algae / Aquatic Plants	0,08 mg/l
BENZENESULFONIC ACID, C10-13-ALKYL DERIVS., SODIUM SALTS LC50 - for Fish	1,67 mg/l/96h
EC50 - for Crustacea	2,9 mg/l/48h
EC50 - for Algae / Aquatic Plants	0,91 mg/l/72h
Chronic NOEC for Fish	0,23 mg/l 72d
Chronic NOEC for Crustacea	0,5 mg/l 7d
Chronic NOEC for Algae / Aquatic Plants	0,5 mg/l 96h
ALCOHOLS, C12-14, ETHOXYLATED, SULFATES, SODIUM SALTS LC50 - for Fish	> 1 mg/l/96h Danio rerio
EC50 - for Crustacea	7,2 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants	27 mg/l/72h Desmodesmus subspicatus
Chronic NOEC for Fish	0,14 mg/l 28d Oncorhynchus mykiss
Chronic NOEC for Crustacea	0,18 mg/l 21d Daphnia magna
Chronic NOEC for Algae / Aquatic Plants	0,93 mg/l Desmodesmus subspicatus

12.2. Persistence and degradability



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MORPHOLINE	
Solubility in water	1000 - 10000 mg/l
Rapidly degradable	
2-BROMO-2-NITROPROPAN-1,3-DIOL	
Solubility in water	286000 mg/l
Rapidly degradable	
BENZENESULFONIC ACID, C10-13-ALKYL DERIVS., SODIUM SALTS Rapidly degradable	
ALCOHOLS, C12-14, ETHOXYLATED, SULFATES, SODIUM SALTS Rapidly degradable	
12.3. Bioaccumulative potential	
MORPHOLINE	
Partition coefficient: n-octanol/water	-2,55
BCF	< 2,8
2-BROMO-2-NITROPROPAN-1,3-DIOL	
Partition coefficient: n-octanol/water	0,22
BCF	3,16
BENZENESULFONIC ACID, C10-13-ALKYL DERIVS., SODIUM SALTS BCF	159
12.4. Mobility in soil	
MORPHOLINE	
Partition coefficient: soil/water	-0,6196
ALCOHOLS, C12-14, ETHOXYLATED, SULFATES, SODIUM SALTS Partition coefficient: soil/water	0,34
12.5. Results of PBT and vPvB assessment	
12.3. NESURS OF FOI AND VEVD ASSESSMENT	

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

12.6. Endocrine disrupting properties

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

12.7. Other adverse effects



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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.

CONTAMINATED PACKAGING

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

SECTION 14. Transport information

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

14.1. UN number or ID number

Not applicable

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Not applicable

14.6. Special precautions for user

Not applicable

14.7. Maritime transport in bulk according to IMO instruments

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



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Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006	
Product Point 3 - 40	
Contained substance Point 75	
Regulation (EC) No. 2019/1148 - on the marketing and use of explosives precursors Not applicable	
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 chemical agent must not undergo health checks, provided that available risk-assessment data prove workers' health and safety are modest and that the 98/24/EC directive is respected.	that the risks related to the
Regulation (EC) No. 648/2004 Ingredients according to Regulation (EC) No. 648/2004	
The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regular detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will at their direct request or at the request of a detergent manufacturer.	
15.2. Chemical safety assessment	
A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.	
SECTION 16. Other information	

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

Flam. Liq. 3	Flammable liquid, category 3
Acute Tox. 4	Acute toxicity, category 4
Skin Corr. 1B	Skin corrosion, category 1B
Eye Dam. 1	Serious eye damage, category 1
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2



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STOT SE 3	Specific target organ toxicity - single exposure, category 3
Aquatic Acute 1	Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic toxicity, category 2
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H332	Harmful if inhaled.
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.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- 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: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
- 4. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament

- Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
 Regulation (EU) 286/2012 (III Atp. CLP) of the European Parliament
 Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament



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- 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
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
- 13. Regulation (EU) 2017/776 (X Atp. CLP) 14. Regulation (EU) 2018/669 (XI Atp. CLP)
- 15. Regulation (EU) 2019/521 (XII Atp. CLP)
- 16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
- 17. Regulation (EU) 2019/1148
- 18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
- 19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
- 20. Delegated Regulation (UE) 2021/643 (XVI 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:

02/03/04/08/09/10/11/12/15.