

Conforms to Reg. (EU) 878/2020

Issued on 04/10//2018				
Revision n° 2				
Rev. Date 12/10/2021				
Page				
1 of 16				

1.1. Product identifier			
Code:	F 192		
Product name	Classic LAUNDRY D	ETERGENT	
UFI :	UGH0-30YG-000H-P9	9C8	
1.2. Relevant identified uses of the substa Identified Uses	ance or mixture and uses advis Industrial	ed against Professional	Consumer
laundry detergent			
Uses Advised Against		✓	√
Do not use for uses other than those indicate			
Do not use for uses other than those indicate	30		
1.3. Details of the supplier of the safety da			
Name	NEW FADOR S.r.I.	A 4	
Full address	via Mario Calderara,		
District and Country	25018 Montichiari (B Italia	3)	
	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		
	(08.30 - 17.30)		
SECTION 2. Hazards identifica	tion		
1. Classification of the substance or mixt			
	uie		
he product is classified as hazardous pursu	uant to the provisions set forth i	in (EC) Regulation 1272/2008	(CLP) (and subsequent amendments a
upplements). The product thus requires a saf			
ny additional information concerning the risks	s for health and/or the environme	nt are given in sections 11 and	12 of this sheet.
azard classification and indication:	H319		irritation
Eye irritation, category 2	П 3 18	Causes serious eye	
	of the ICE-PH-15/0339 stu	dv.	
laceitiad on the basis of the results			

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

Hazard pictograms:





Conforms to Reg. (EU) 878/2020

Issued on 04/10//2018 Revision n° 2 Rev. Date 12/10/2021 Page 2 of 16

Signal words:

Warning

Hazard statements:

H319

Causes serious eye irritation.

Precautionary statements:

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P280	Wear protective gloves/ protective clothing / eye protection / face protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice / attention.

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

Less than 5%	non-ionic surfactants, soap
5% or over but less than	anionic surfactants
15%	

perfumes

Preservation agents: Glutaral, Benzisothiazolinone, 2-Bromo-2-Nitropropane-1,3-Diol

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%.

The product does not contain substances with endocrine disrupting properties in concentration >= 0.1%.

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	4 ≤ x < 4,5	Acute Tox. 4 H302, Eye Dam. 1 H318, Skin Irrit. 2 H315, Aquatic Chronic 3 H412
EC 270-115-0		LD50 Oral: 1080 mg/kg
INDEX -		
REACH Reg. 01-2119489428-22		
ALCOHOLS, C12-13, BRANCHED AND LINEAR, ETHOXYLATED		



Conforms to Reg. (EU) 878/2020

Issued on 04/10//2018 Revision n° 2 Rev. Date 12/10/2021 Page **3 of 16**

CAS 160901-19-9 $1.5 \le x < 2$ Acute Tox. 4 H302, Eve Dam. 1 H318, Aquatic Chronic 3 H412 EC 931-954-4 Eye Dam. 1 H318: ≥ 10%, Eye Irrit. 2 H319: ≥ 1% INDEX -LD50 Oral: >300 mg/kg REACH Reg. 01-2119490233-42 ALCOHOLS, C12-14, ETHOXYLATED, SULFATES, SODIUM SALTS CAS 68891-38-3 $1 \le x < 1,5$ Eye Dam. 1 H318, Skin Irrit. 2 H315. Aquatic Chronic 3 H412 EC 500-234-8 Eye Dam. 1 H318: ≥ 10%, Eye Irrit. 2 H319: ≥ 5% INDEX -REACH Reg. 01-2119488639-16 2-BROMO-2-NITROPROPAN-1.3-וסוס CAS 52-51-7 $0 \le x < 0,05$ 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 $0 \le x < 0.05$ Flam. Lig. 3 H226, Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4 H332, Skin Corr. 1B H314, Eve Dam. 1 H318 FC 203-815-1 LD50 Oral: 1050 mg/kg, STA Dermal: 1100 mg/kg, STA Inhalation vapours: 11 mg/l INDEX 613-028-00-9 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.



Conforms to Reg. (EU) 878/2020

Issued on 04/10//2018 Revision n° 2 Rev. Date 12/10/2021 Page

4 of 16

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

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



Conforms to Reg. (EU) 878/2020

lssued on 04/10//2018				
Revision n° 2				
Rev. Date 12/10/2021				
Page				
5 of 16				

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	
		СВЪРЗАНИ С ЕКСПОЗИЦИЯ НА ХИМИЧНИ АГЕНТИ ПРИ РАБОТА (изм. ДВ. бр.5 от 17 Януари 2020г.)
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. MAK- und BAT-Werte-Liste 2020, Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe, Mitteilung 56
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 μεταλλαξιγόνους παράγοντες 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 Praviľnika 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 químicos. 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	Rozporządzenie ministra rozwoju, pracy i technologii z dnia 18 lutego 2021 r. Zmieniające rozporządzenie w sprawie najwyższych dopuszczalnych stężeń i natężeń czynników szkodliwych dla zdrowia w
SVK	Slovensko	środowisku pracy NARIADENIE VLÁDY Slovenskej republiky z 12. augusta 2020, ktorým sa mení a dopĺňa nariadenie vlády Slovenskej republiky č. 356/2006 Z. z. o ochrane zdravia zamestnancov pred rizikami súvisiacimi s
GBR	United Kingdom	expozíciou karcinogénnym a mutagénnym faktorom pri práci v znení neskorších predpisov
EU	OEL EU	EH40/2005 Workplace exposure limits (Fourth Edition 2020)
EU	UEL 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	
Normal value for marine water sediment	6,8	mg/kg	
Normal value for water, intermittent release	0,017	mg/l	



Conforms to Reg. (EU) 878/2020

Issued on 04/10//2018 Revision n° 2

Rev. Date 12/10/2021

Page

6 of 16

Normal value of STP microorganisms			3,43	mg				
Normal value for the terrestrial compartment				35	mg/kg			
Health - Derived no-effec	Effects on consumers	MEL			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 bw/d				
Inhalation			1,5	1,5 mg/m3			6	6 mg/m3
Skin				42,5 mg/kg bw/d				85 mg/kg bw/d
ALCOHOLS, C12-14, ETH Predicted no-effect concentrat		FATES, SODIU	M SALTS					
	ION - PINEC							
Normal value in fresh water				0,24	mg			
Normal value in marine water				0,024	mg	/I		
Normal value for fresh water s	ediment			0,917	mg	/kg		
Normal value for marine water	sediment			0,092	mg	/kg		
Normal value for water, interm	ittent release			0,071	mg	/1		
Normal value of STP microorg	anisms			10	g/l			
Normal value for the terrestrial	l compartment			7,5	mg	/kg		
Health - Derived no-effec	t level - DNEL / DI Effects on consumers	MEL			Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic	Acute local	Acute	Chronic local	Chronic
Oral				systemic 15 mg/kg		systemic		systemic
Inhalation				bw/d 52 mg/m3				175 mg/m3
Skin				1650 mg/kg				2750 mg/k
				bw/d				bw/d
2-BROMO-2-NITROPROF	PAN-1,3-DIOL							
Predicted no-effect concentrat								
Normal value in fresh water				0,01	mg	/I		
Normal value in marine water				0,001	mg	//		
Normal value for fresh water s	ediment			0,041	mg	/kg		
Normal value for marine water	sediment			0,003	mg	/kg		
Normal value for water, interm	ittent release			0,003	mg	/I		
Normal value of STP microorg	anisms			0,43	mg	//		
Normal value for the terrestrial	l compartment			0,5	mg	/kg		
Health - Derived no-effect	t level - DNEL / DI Effects on	MEL			Effects on			
	consumers				workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral		1,1 mg/kg bw/d		0,35 mg/kg bw/d				
lab al ati an	1,3 mg/m3	3,7 mg/m3	1,3 mg/m3	1,2 mg/m3	4,2 mg/m3	12,3 mg/m3 7 mg/kg bw/d	4,2 mg/m3 0,013	4,1 mg/m3
Inhalation Skin	0,008 mg/cm2	4,2 mg/kg bw/d	0,008 mg/cm2	1,4 mg/kg	0,013			2,3 mg/kg

MORPHOLINE Threshold Limit Value



Conforms to Reg. (EU) 878/2020

Issued on 04/10//2018 Revision n° 2 Rev. Date 12/10/2021 Page 7 of 16

Туре	Country	TWA/8h		STEL/15min		Remarks Observat		
		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 concentratio	n - PNEC							
Normal value in fresh water				0,1	mg	/I		
Normal value in marine water				0,01	mg	/I		
Normal value for fresh water see	diment			0,01	mg	/kg		
Normal value for marine water s	ediment			1,49	mg	/kg		
Normal value for water, intermitt	tent release			0,28	mg	/I		
Normal value of STP microorga	nisms			10	mg	/I		
Normal value for the terrestrial of	compartment			0,239	mg	/kg		
Health - Derived no-effect	level - DNEL / I 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 bw/d				
Inhalation	18 mg/m3		3,2 mg/m3	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.

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.



Conforms to Reg. (EU) 878/2020

Issued on 04/10//2018				
Revision n° 2				
Rev. Date 12/10/2021				
Page				
8 of 16				

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	blue	
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	
рН	8,5	
Kinematic viscosity	Not available	
Dynamic viscosity	150 ± 50 mPa. Sec (rotore2;	
Solubility	25°C; velocità 30) soluble in water	
Partition coefficient: n-octanol/water	Not available	
Vapour pressure	Not available	
Density and/or relative density	1,01	



Conforms to Reg. (EU) 878/2020

Issued on 04/10//2018 Revision n° 2 Rev. Date 12/10/2021 Page 9 of 16

Relative vapour density Particle characteristics Not available

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

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



Conforms to Reg. (EU) 878/2020

Issued on 04/10//2018 Revision n° 2 Rev. Date 12/10/2021 Page 10 of 16

1.1. Information on hazard classes as defined	in Regulation (EC) No 1272/2008
letabolism, toxicokinetics, mechanism of action an	nd other information
iformation not available	
iformation on likely routes of exposure	
elayed and immediate effects as well as chronic	affects from short and long-term exposure
formation not available	
iteractive effects	
formation not available	
CUTE TOXICITY	
ATE (Inhalation) of the mixture:	Not classified (no significant component)
ATE (Oral) of the mixture:	>2000 mg/kg
ATE (Dermal) of the mixture:	Not classified (no significant component)
ENZENESULFONIC ACID, C10-13-ALKYL DERI	
LD50 (Oral):	1080 mg/kg rat
LD50 (Dermal):	> 2000 mg/kg rat
LCOHOLS, C12-13, BRANCHED AND LINEAR,	
LD50 (Oral):	> 300 mg/kg rat
LD50 (Dermal):	> 2000 mg/kg rabbit
LCOHOLS, C12-14, ETHOXYLATED, SULFATE	
LD50 (Oral):	> 2000 mg/kg rat
LD50 (Dermal):	> 2000 mg/kg rat
-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
IORPHOLINE	
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)
KIN CORROSION / IRRITATION	zard class
oes not meet the classification criteria for this haz ERIOUS EYE DAMAGE / IRRITATION	
auses serious eye irritation	
ESPIRATORY OR SKIN SENSITISATION	
	zard class
oes not meet the classification criteria for this haz	
ERM CELL MUTAGENICITY	
ERM CELL MUTAGENICITY oes not meet the classification criteria for this haz	zard class
ERM CELL MUTAGENICITY	



Conforms to Reg. (EU) 878/2020

Issued on 04/10//2018 Revision n° 2 Rev. Date 12/10/2021 Page

11 of 16

 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

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

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
ALCOHOLS, C12-13, BRANCHED AND	
LINEAR, ETHOXYLATED EC50 - for Algae / Aquatic Plants	> 1 mg/l/72h Desmodesmus subspicatus
EC10 for Crustacea	> 0,1 mg/l Daphnia magna
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
	0,0 mg/ 001
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



Conforms to Reg. (EU) 878/2020

Page 12 of 16
Rev. Date 12/10/2021
Revision n° 2
Issued on 04/10//2018

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	
MORPHOLINE	
Solubility in water	1000 - 10000 mg/l
Rapidly degradable	
ALCOHOLS, C12-13, BRANCHED AND LINEAR, ETHOXYLATED 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, C12-13, BRANCHED AND LINEAR, ETHOXYLATED Partition coefficient: soil/water	3,69
ALCOHOLS, C12-14, ETHOXYLATED,	



Conforms to Reg. (EU) 878/2020

Issued on 04/10//2018	
Revision n° 2	
Rev. Date 12/10/2021	
Page	
13 of 16	

SULFATES, SODIUM SALTS Partition coefficient: soil/water

0,34

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 ≥ 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

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



Conforms to Reg. (EU) 878/2020

Issued on 04/10//2018 Revision n° 2 Rev. Date 12/10/2021 Page

14 of 16

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 Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006 Product 3 - 40 Point Contained substance 75 Point 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 ≥ 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 that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected. 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 Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer. German regulation on the classification of substances hazardous to water (AwSV, vom 18. April 2017) WGK 2: Hazard to waters 15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.



Conforms to Reg. (EU) 878/2020

Issued on 04/10//2018 Revision n° 2 Rev. Date 12/10/2021 Page

15 of 16

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
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



Conforms to Reg. (EU) 878/2020

Issued on 04/10//2018 Revision nº 2 Rev. Date 12/10/2021 Page

16 of 16

- 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

- 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)
- 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 / 08 / 09 / 11 / 12 / 15 / 16.