

Conforms to Reg. (EU) 878/2020

Issued on 01/03/2022 Revision n° 2

Rev. Date 28/03/2023 Page

1 of 16

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

1.1. Product identifier

Code: Product name UFI:

F 189

DRAIN REMOVER Liquid J7H0-K0W9-3001-P8M2

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

Identified Uses	Industrial	Professional	Consumer	
unblocking agent for domestic drains	-	✓	✓	
Uses Advised Against				

Do not use for uses other than those indicated

1.3. Details of the supplier of the safety data sheet

NEW FADOR S.r.I. Name via Mario Calderara, 31 Full address 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

NEW FADOR S.r.I. For urgent inquiries refer to

+39 030961 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 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 2020/878. 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:

Skin corrosion, category 1A H314 Causes severe skin burns and eye damage. Serious eye damage, category 1 H318 Causes serious eye damage. Hazardous to the aquatic environment, acute toxicity, Very toxic to aquatic life. H400 category 1 Hazardous to the aquatic environment, chronic toxicity, Toxic to aquatic life with long lasting effects. H411

category 2

2.2. Label elements

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



Conforms to Reg. (EU) 878/2020

Issued on 01/03/2022

Revision n° 2

Rev. Date 28/03/2023

Page

2 of 16

Hazard pictograms:





Signal words: Danger

Hazard statements:

H314 Causes severe skin burns and eye damage.

H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

EUH206 Warning! Do not use together with other products. May release dangerous gases (chlorine).

Precautionary statements:

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P260 Do not breathe dust / fume / gas / mist / vapours / spray.

P280 Wear protective gloves / protective clothing / eye protection / face protection.

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing.

P310 Immediately call a POISON CENTER.

P405 Store locked up.

P501 Dispose of contents / container in accordance with current regulations.

Contains: SODIUM HYDROXIDE

SODIUM HYPOCHLORITE, SOLUTION 4 % CL ACTIVE

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

Less than 5% anionic surfactants, amphoteric surfactants, chlorine-based bleaching agents, soap

2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ 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:



Conforms to Reg. (EU) 878/2020

Issued on 01/03/2022

Revision n° 2

Rev. Date 28/03/2023

Page

3 of 16

Identification x = Conc. % Classification (EC) 1272/2008 (CLP)

SODIUM HYDROXIDE

CAS 1310-73-2 $4,5 \le x < 5$ Met. Corr. 1 H290,

Skin Corr. 1A H314, Eye Dam. 1 H318

EC 215-185-5 Skin Corr. 1B H314: ≥ 2%, Skin Irrit. 2 H315: ≥ 0,5%, Eve Dam. 1 H318: ≥ 2%.

Eye Irrit. 2 H319: ≥ 0,5%

INDEX 011-002-00-6

REACH Reg. 01-2119457892-27 sodium hypochlorite, solution 4 %

CI active

CAS 7681-52-9 26 ≤ x < 28 Met. Corr. 1 H290,

Skin Corr. 1B H314, Eye Dam. 1 H318, Aquatic Acute 1 H400

Aquatic Acute 1 H400 M=10, Aquatic Chronic 1 H410 M=1,

EÜH031,

Classification note according to Annex VI to the CLP Regulation: B

EC 231-668-3

INDEX 017-011-00-1

REACH Reg. 01-2119488154-34 N,N-dimethyltetradecylamine N-

oxide

CAS 3332-27-2 $0,607 \le x <$

0,707 Eye Dam. 1 H318,

Skin Irrit. 2 H315,

Acute Tox. 4 H302,

Aquatic Acute 1 H400 M=1, Aquatic Chronic 2 H411 LD50 Oral: >1495 mg/kg

INDEX -

EC 222-059-3

REACH Reg. 01-2119949262-37

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



Conforms to Reg. (EU) 878/2020

Issued on 01/03/2022

Revision n° 2

Rev. Date 28/03/2023

Page

4 of 16

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

Issued on 01/03/2022 Revision n° 2

Rev. Date 28/03/2023

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.

Storage class TRGS 510 (Germany):

7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory References:

DCD.	F	HADE IF A No. 42 OT 20 IEVEMPRIA 2002 E. 2A 2AUHATA HA DAFOTEHHATE OT BIACKOPE
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
		1 1 1 1 1 1
CZE	Časlić Damiililia	2020r.)
CZE	Česká Republika	Nařízení vlády č. 41/2020 Sb. Nařízení vlády, kterým se mění nařízení vlády č. 361/2007 Sb., kterým se
DAIIC	5 .	stanoví podmínky ochrany zdraví při práci, ve znění pozdějších předpisů
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/EE, 2019/130/EE και 2019/983/EE «για την τροποποίηση της οδηγίας 2004/37/EK ``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 Pravilnika o zaštiti radnika od izloženosti opasnimkemikalijama na radu,
		graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 1/2021)
POL	Polska	Rozporzadzenie ministra rozwoju, pracy i technologii z dnia 18 lutego 2021 r. Zmieniające rozporządzenie
_		w sprawie najwyższych dopuszczalnych stężeń i nateżeń czynników szkodliwych dla zdrowia w
		środowisku pracy
SVK	Slovensko	NARIADENIE VLÁDY Slovenskej republiky z 12. augusta 2020, ktorým sa mení a dopĺňa nariadenie vlády
0111	Cioverione	Slovenskej republiky č. 356/2006 Z. z. o ochrane zdravia zamestnancov pred rizikami súvisiacimi s
		expoziciou karcinogénnym a mutagénnym faktorom pri práci v znení neskorších predpisov
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Fourth Edition 2020)
GDI	S S	
	TLV-ACGIH	ACGIH 2021

SODIUM HYDROXIDE
Throshold Limit Value

Threshold Limit Value)						
Туре	Country	TWA/8h		STEL/15min		Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
TLV	BGR	2					
TLV	CZE	1		2			
TLV	DNK	2					
VLA	ESP	2					
VLEP	FRA	2					
TLV	GRC	2		2			



medium hazard ; HIGH = high hazard.

MATERIAL SAFETY DATA SHEET

Conforms to Reg. (EU) 878/2020

Issued on 01/03/2022
Revision n° 2
Rev. Date 28/03/2023
Page
6 of 16

AK	HUN	2		2				
GVI/KGVI	HRV			2				
NDS/NDSCh	POL	0,5		1				
NPEL	SVK	2						
WEL	GBR			2				
TLV-ACGIH				2 (C)				
Health - Derived no-effor	ect level - DNEL /	DMEL						
	Effects on				Effects on			
Route of exposure	consumers Acute local	Acute systemic	Chronic local	Chronic	workers Acute local	Acute	Chronic local	Chronic
Inhalation			1 mg/m3	systemic		systemic	1 mg/m3	systemic
sodium hypochlorite, s	olution 4 % CI act	ive						
Predicted no-effect concentr	ation - PNEC							
Normal value in fresh water				0,00021	m	g/l		
Normal value in marine water	er .			0,000042	m(g/l		
Normal value for water, inter	mittent release			0,00026	mç	g/l		
Normal value of STP microo	rganisms			4,69	mç	g/l		
Normal value for the food ch	ain (secondary poisor	ning)		11,1	m	g/kg		
Health - Derived no-effo	ect 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
Oral				0,26 mg/kg/d		Systemic		systemic
Inhalation	3,1 mg/m3	3,1 mg/m3	1,55 mg/m3	1,55 mg/m3	3,1 mg/m3	3,1 mg/m3	1,55 mg/m3	1,55 mg/m3
N,N-dimethyltetradecyl	amino Navido							
Predicted no-effect concentr	ration - PNEC							
Normal value in fresh water				0,034	mç	<u></u> g/l		
Normal value in marine water	 er			0,003	mg	g/l		
Normal value for fresh water	sediment			5,24		g/kg		
Normal value for marine wat	er sediment			0,524		g/kg		
Normal value of STP microo				24	mg			
Normal value for the food ch		ning)		11,1		g/kg		
Normal value for the terrestr	, , ,	9/		1,02		g/kg		
Health - Derived no-effe	·	DMEI		1,02	1110	g/kg		
nealth - Derived no-en	Effects on consumers	DIVIEL			Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				0,44 mg/kg bw/d		Gyotolillo		3,0.011110
				1,53 mg/m3				6,2 mg/m3
Inhalation								11 mg/kg
Inhalation Skin				5,5 mg/kg bw/d				bw/d

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified ; LOW = low hazard ; MED =



Conforms to Reg. (EU) 878/2020

Issued on 01/03/2022 Revision n° 2

Rev. Date 28/03/2023

Page

7 of 16

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.

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 III 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 a hood visor or protective visor combined with airtight 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

Properties	Value	Information
Appearance	liquid	
Colour	yellow	
Odour Melting point / freezing point	characteristic 0 °C	Method: internal Method: internal Substance: WATER
Initial boiling point	100 °C	Method: internal Substance: WATER
Flammability	not available	Reason for missing data: The substance/mixture is not flammable
Lower explosive limit	not available	Reason for missing data: The substance/mixture is not explosive



Conforms to Reg. (EU) 878/2020

Issued on 01/03/2022

Revision n° 2

Rev. Date 28/03/2023

Page

8 of 16

Upper explosive limit

Flash point

Auto-ignition temperature Decomposition temperature

Kinematic viscosity

Dynamic viscosity

Solubility

Partition coefficient: n-octanol/water

Vapour pressure

Density and/or relative density Relative vapour density

Particle characteristics

Method:

Size distribution

Method: Dustiness

Method:

Specific surface area

Method:

Shape Method:

9.2. Other information

Information not available

9.2.2. Other safety characteristics

VOC (Directive 2010/75/EU) VOC (volatile carbon)

Explosive properties

Oxidising properties

not available not available

not available not available

11,5 not available

700 mPa*s (25 °C; rotor 2;

speed 30)

soluble in water

-3.42

not available not available

not available

not determined

not determined

not determined

not determined

not determined

Reason for missing data: The substance/mixture is not flammable Reason for missing data: not determined Reason for missing data: not determined Method: internal method Reason for missing data: not determined Method: internal

Method: derived from the nature of the individual raw materials component the

Reason for missing data: The substance/mixture is not explosive

mixture

Method: not specified

Substance: sodium hypochlorite, solution 4 %

CI active

Temperature: 20 °C

Reason for missing data: not determined Reason for missing data: not determined

not classified as explosive, contains no explosive

substances according to CLP

Art. (14 (2))

0

The product is considered to

be a category 2 oxidant.

Method: internal

Method: internal

SECTION 10. Stability and reactivity

9.2.1. Information with regard to physical hazard classes

10.1. Reactivity

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



Conforms to Reg. (EU) 878/2020

Issued on 01/03/2022

Revision n° 2

Rev. Date 28/03/2023

Page

9 of 16

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.

SODIUM HYDROXIDE

Avoid exposure to: air, moisture, sources of heat.

10.5. Incompatible materials

SODIUM HYDROXIDE

Incompatible with: strong acids, ammonia, zinc, lead, aluminium, water, flammable liquids.

10.6. Hazardous decomposition products

Information not available

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 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:

ATE (Oral) of the mixture:

Not classified (no significant component)

Not classified (no significant component)

ATE (Dermal) of the mixture:

Not classified (no significant component)

SODIUM HYDROXIDE

LD50 (Oral): 325 mg/kg bw

sodium hypochlorite, solution 4 % Cl active

LD50 (Dermal): > 10000 mg/kg rabbit LD50 (Oral): 1100 mg/kg rat



Conforms to Reg. (EU) 878/2020

Issued on 01/03/2022

Revision n° 2

Rev. Date 28/03/2023

Page

10 of 16

LC50 (Inhalation vapours): > 10,5 mg/l/1h rat

N,N-dimethyltetradecylamine N-oxide

LD50 (Dermal): LD50 (Oral): > 2000 mg/kg

> 1495 mg/kg

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

Does not meet the classification criteria for this hazard class Respiratory sensitization Information not available

Skin sensitization

Information not available

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class Adverse effects on sexual function and fertility

Information not available

Adverse effects on development of the offspring

Information not available

Effects on or via lactation

Information not available

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

Target organs

Information not available

Route of exposure

Information not available

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

Target organs

Information not available

Route of exposure

Information not available

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.



Conforms to Reg. (EU) 878/2020

Issued on 01/03/2022

Revision n° 2

Rev. Date 28/03/2023

Page

11 of 16

SECTION 12. Ecological information

This product is dangerous for the environment and highly toxic for aquatic organisms.

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

12.1. Toxicity

SODIUM HYDROXIDE

LC50 - for Fish < 180 mg/l/96h Gambusia affinis EC50 - for Crustacea 40,4 mg/l/48h Ceriodaphnia sp.

N,N-dimethyltetradecylamine N-oxide

 LC50 - for Fish
 10,3 mg/l/96h

 EC50 - for Crustacea
 2,46 mg/l/48h

 EC50 - for Algae / Aquatic Plants
 0,66 mg/l/72h

 Chronic NOEC for Fish
 0,495 mg/l 15 day

Chronic NOEC for Crustacea 0,7 mg/l
Chronic NOEC for Algae / Aquatic Plants 0,25 mg/l

sodium hypochlorite, solution 4 % Cl active

LC50 - for Fish 0,059 mg/l/96h Oncorhynchus mykiss

EC50 - for Crustacea 0,04 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants 46 mg/l/72h Gracilaria tenuistipitata

12.2. Persistence and degradability

SODIUM HYDROXIDE

Degradability: information not available

sodium hypochlorite, solution 4 % Cl active

Solubility in water 1000 - 10000 mg/l

Degradability: information not available

12.3. Bioaccumulative potential

sodium hypochlorite, solution 4 % CI active

Partition coefficient: n-octanol/water -3,42

12.4. Mobility in soil

sodium hypochlorite, solution 4 % CI active

Partition coefficient: soil/water -2,9686

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



Conforms to Reg. (EU) 878/2020

Issued on 01/03/2022

Revision n° 2

Rev. Date 28/03/2023

Page

12 of 16

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.

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 or ID number

ADR / RID, IMDG, IATA: 1760

14.2. UN proper shipping name

ADR / RID: CORROSIVE LIQUID, N.O.S. IMDG: CORROSIVE LIQUID, N.O.S. IATA: CORROSIVE LIQUID, N.O.S.

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:

14.5. Environmental hazards

ADR / RID: NO IMDG: NO IATA: NO



Conforms to Reg. (EU) 878/2020

Issued on 01/03/2022

Revision n° 2

Rev. Date 28/03/2023

Page

13 of 16

14	6	Special	precautions	for user

ADR / RID: HIN - Kemler: 80 Limited Tunnel

Quantities: 1 restriction code: (E)

Special provision: 274

EMS: F-A, S-B IMDG: Limited

Pass.:

Quantities: 1

Cargo: Maximum

Packaging quantity: 30 L instructions:

855

Maximum Packaging quantity: 1 L instructions:

851

Special provision: A3, A803

14.7. Maritime transport in bulk according to IMO instruments

Information not relevant

IATA:

SECTION 15. Regulatory information

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

Seveso Category - Directive 2012/18/EU: 41

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

<u>Product</u>

3 Point

Contained substance

Point 75

Regulation (EU) 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)

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:

None

Substances subject to the Rotterdam Convention:

Substances subject to the Stockholm Convention:

None



Conforms to Reg. (EU) 878/2020

Issued on 01/03/2022

Revision n° 2

Rev. Date 28/03/2023

Page

14 of 16

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.

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

Acute Tox. 4 Acute toxicity, category 4 Skin Corr. 1A Skin corrosion, category 1A Eye Dam. 1 Serious eye damage, category 1

Aquatic Acute 1 Hazardous to the aquatic environment, acute toxicity, category 1 **Aquatic Chronic 1** Hazardous to the aquatic environment, chronic toxicity, category 1 Aquatic Chronic 2 Hazardous to the aquatic environment, chronic toxicity, category 2

H290 May be corrosive to metals. H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage. H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects. EUH031 Contact with acids liberates toxic gas.

EUH206 Warning! Do not use together with other products. May release dangerous gases

(chlorine).

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 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



Conforms to Rea. (EU) 878/2020

Issued on 01/03/2022

Revision n° 2

Rev. Date 28/03/2023

Page

15 of 16

- IMO: International Maritime Organization
- INDEX: 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: Regulation (EC) 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 (EC) 790/2009 (I Atp. CLP) 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
- 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)
- 19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
- 20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP) 21. Delegated Regulation (UE) 2021/849 (XVII 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

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:



MATERIAL SAFETY DATA SHEET Conforms to Reg. (EU) 878/2020

Issued on 01/03/2022

Revision n° 2

Rev. Date 28/03/2023

	Contoning to Neg. (LO) of 0/2020	Page	
NEW FADOR		16 of 16	
/00 / 11 / 12 / 15			
/ 09 / 11 / 12 / 15.			