STAR unter our solution	FILA INDUSTRIA CHIMICA S.P.A.	Revision nr. 3
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### SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name NORUST

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

Intended use rust remover

Identified Uses	Industrial	Professional	Consumer
Uses	-	₩	✓
1.3. Details of the supplier of the sa Name Full address	FILA INDUSTRIA C Via Garibaldi, 58		
District and Country	35018 San Martino ITALIA	di Lupari (PD)	

Tel. +39.049.9467300

Fax +39.049.9460753

e-mail address of the competent person

responsible for the Safety Data Sheet sds@filasolutions.com

1.4. Emergency telephone number

For urgent inquiries refer to TEL +39.049.9467300 (Monday –

Friday; 8.30 - 12.30 and 14.00 - 17.30 )

UNITED KINGDOM: NHS Direct 111 (In England, Scotland North Ireland) 08454647

(Wales); IRELAND 018092166

# **SECTION 2. Hazards identification**

#### 2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2015/830.

Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

Acute toxicity, category 4	H302	Harmful if swallowed.
Eye irritation, category 2	H319	Causes serious eye irritation.
Skin irritation, category 2	H315	Causes skin irritation.



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#### 2.2. Label elements

(EU) no. 2015/830

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

#### Hazard pictograms:



Signal words: Warning

#### Hazard statements:

H302 Harmful if swallowed.
H319 Causes serious eye irritation.
H315 Causes skin irritation.

### Precautionary statements:

**P501** Dispose of contents / container in accordance with local/regional/national/international regulation.

P102 Keep out of reach of children.

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

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

rinsing

P280 Wear protective gloves / eye protection / face protection.

P337+P313 Wear protective gloves / eye protection / face protection.

Contains: SODIUM THIOGLYCOLATE

#### 2.3. Other hazards

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

# **SECTION 3. Composition/information on ingredients**

### 3.1. Substances

Information not relevant

### 3.2. Mixtures

Contains:



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

**SODIUM THIOGLYCOLATE** 

CAS 367-51-1 20,2 ≤ x < 25,2 Acute Tox. 4 H302, Eye Irrit. 2 H319, Skin Irrit. 2 H315

EC 206-696-4

INDEX -

**ETHANOLAMINE** 

(EU) no. 2015/830

CAS 141-43-5 0,07 ≤ x < 0,11 Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4 H332, Skin Corr. 1B

H314, Eye Dam. 1 H318, STOT SE 3 H335, Aquatic Chronic 3 H412

EC 205-483-3 INDEX 603-030-00-8

Reg. no. 01-2119486455-28

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. Wash immediately with plenty of water. If irritation persists, get medical advice/attention. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. In the event of breathing difficulties, get medical advice/attention immediately.

INGESTION: Get medical advice/attention. Induce vomiting only if indicated by the doctor. Never give anything by mouth to an unconscious person, unless 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

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.

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According to Annex II to REACH - Regulation 2015/830

#### 5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE Do not breathe combustion products.

#### 5.3. Advice for firefighters

#### GENERAL INFORMATION

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

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

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

#### **SECTION 6. Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

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

#### 6.2. Environmental precautions

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

#### 6.3. Methods and material for containment and cleaning up

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

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

#### 6.4. Reference to other sections

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

# **SECTION 7. Handling and storage**

#### 7.1. Precautions for safe handling

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

### 7.2. Conditions for safe storage, including any incompatibilities



According to Annex II to REACH - Regulation 2015/830

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:

	CZE	Česká Republika	Nařízení vlády č. 246/2018 Sb. Nařízení vlády, kterým se mění nařízení vlády č. 361/2007 Sb., kterým se
I			stanoví podmínky ochrany zdraví při práci, ve znění pozdějších předpisů
l	DEU	Deutschland	TRGS 900 (Fassung 07.06.2018) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte
	DNK	Danmark	Bekendtgørelse om ændring af bekendtgørelse om grænseværdier for stoffer og materialer1- BEK nr 655 af 31/05/2018
	ESP	España	LÍMITES DE EXPOSICIÓN PROFESIONAL PARA AGENTES QUÍMICOS EN ESPAÑA 2008 NIPO: 211- 08-011-5
	FIN	Suomi	HTP-VÄRDEN 2018. Koncentrationer som befunnits skadliga. SOCIAL- OCH HÄLSOVÅRDSMINISTERIETS PUBLIKATIONER 10/2018
l	FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
l	GBR	United Kingdom	EH40/2005 Workplace exposure limits (Third edition, published 2018)
l	GRC	Ελλάδα	ΕΦΗΜΕΡΙΔΑ ΤΗΣ ΚΥΒΕΡΝΗΣΕΩΣ - ΤΕΥΧΟΣ ΠΡΩΤΟ Αρ. Φύλλου 152 - 21 Αυγούστου 2018
l	HRV	Hrvatska	Pravilnik o zaštiti radnika od izloženosti opasnim kemikalijama na radu, graničnim vrijednostima izloženosti
l	TIIXV	Tilvaiska	i biološkim graničnim vrijednostima (NN 91/18)
l	HUN	Magyarország	A pénzügyminiszter 7/2018. (VIII. 29.) PM rendelete a munkahelyek kémiai biztonságáról szóló 25/2000.
l	HUN	Magyarorszag	1 0, , ,
l			(IX. 30.) EüM–
l	IT A	to P	SZCSM együttes rendelet módosításáról
l	ITA	Italia	DIRETTIVA (UE) 2017/164 DELLA COMMISSIONE del 31 gennaio 2017
l	NLD	Nederland	Regeling van de Staatssecretaris van Sociale Zaken en Werkgelegenheid van 13 juli 2018, 2018-
l			0000118517 tot wijziging van de Arbeidsomstandighedenregeling in verband met de implementatie van
l			Richtlijn 2017/164 in Bijlage XIII
l	NOR	Norge	Fastsatt av Arbeids- og sosialdepartementet 21. august 2018 med hjemmel i lov 17. juni 2005 nr. 62 om
l			arbeidsmiljø, arbeidstid, stillingsvern mv. (arbeidsmiljøloven) § 1-3, § 1-4 og § 4-5
l	POL	Polska	ROZPORZĄDZENIE MINISTRA RODZINY, PRACY I POLITYKI SPOŁECZNEJ z dnia 12 czerwca 2018 r
l	PRT	Portugal	Ministério da Economia e do Emprego Consolida as prescrições mínimas em matéria de protecção dos
l			trabalhadores contra os riscos para a segurança e a saúde devido à exposição a agentes químicos no
l			trabalho - Diário da República, 1.ª série - N.º 111 - 11 de junho de 2018
l	ROU	România	HOTĂRÂRE nr. 584 din 2 august 2018 pentru modificarea Hotărârii Guvernului nr. 1.218/2006 privind
l			stabilirea cerintelor minime de securitate si sănătate în muncă pentru asigurarea protectiei lucrătorilor
l			împotriva riscurilor legate de prezența agenților chimici
l	SVK	Slovensko	Nariadenie vlády č. 33/2018 Z. z. Nariadenie vlády Slovenskej republiky, ktorým sa mení a dopĺňa
l			nariadenie vlády Slovenskej republiky č. 355/2006 Z. z. o ochrane zamestnancov pred rizikami súvisiacimi
l			s expozíciou chemickým faktorom pri práci v znení neskorších predpisov
l	SVN	Slovenija	Uradni list Republike Slovenije 04.06.2015 (1602) - Pravilnik o spremembah in dopolnitvah Pravilnika o
l	0111	Olovernja	varovanju delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu
I	SWE	Sverige	Hygieniska gränsvärden, AFS 2018:1
I	EU	OEL EU	Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive
I	20	OEL EU	2004/37/EC; Directive (EO) 2017/104; Directive 2009/161/EO; Directive 2006/15/EC; Directive 2006/15/EC; Directive 2006/15/EC; Directive 2006/161/EO; Directive 2006/16/EC; Directive 2006/EC;
I		TLV-ACGIH	ACGIH 2019
1		I LV-AUGIT	AUGIN ZUIY

### ETHANOLAMINE Threshold Limit Value



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Safety data sheet according to regulation (CE) n. 1907/2006 (REACH), Annex II, and successive adjustments introduced by Commission Regulation

Effects on

Acute local

Acute systemic

Chronic local

VND

VND

2 mg/m3

Chronic

systemic

VND

3,75 mg/kg/d

0,24 mg/kg/d

Route of exposure

Oral

Skin

Inhalation

(EU) no. 2015/830

According to Annex II to REACH - Regulation 2015/830

Туре	Country	TWA/8h		STEL/15min				
		mg/m3	ppm	mg/m3	ppm			
TLV	CZE	2,5	1,0025	7,5	3,0075			
MAK	DEU	0,51	0,2	0,51	0,2			
TLV	DNK	2,5	1			SKIN	E	
VLA	ESP	2,5	1	7,5	3	SKIN	-	
HTP	FIN	2,5	1	7,6	3	SKIN		
VLEP	FRA	2,5	1	7,6	3	SKIN		
WEL	GBR	2,5	1	7,6	3	SKIN	-	
TLV	GRC	2,5	1	7,6	3			
GVI/KGVI	HRV	2,5	1	7,6	3	SKIN		
AK	HUN	2,5		7,6		SKIN	-	
VLEP	ITA	2,5	1	7,6	3	SKIN	-	
TGG	NLD	2,5		7,6		SKIN	-	
TLV	NOR	2,5	1			SKIN	-	
NDS/NDSCh	POL	2,5		7,5		SKIN		
VLE	PRT	2,5	1	7,6	3	SKIN		
TLV	ROU	2,5	1	7,6	3	SKIN	-	
NPEL	SVK	2,5	1	7,6	3	SKIN	-	
MV	SVN	2,5	1	7,5	3	SKIN		
NGV/KGV	SWE	2,5	1	7,5	3	SKIN		
OEL	EU	2,5	1	7,6	3	SKIN		
TLV-ACGIH		7,5	3	15	6		-	
Predicted no-effect conce	entration - PNEC							
Normal value in fresh wat	ter			0,085	mg	/I		
Normal value in marine w	vater			0,0085	mg	/I		-
Normal value for fresh wa	ater sediment			0,434	mg	/kg		-
Normal value for marine	water sediment			0,0434	mg	/kg		
Normal value for water, in	ntermittent release			0,028	mg	/I		-
Normal value of STP mic	roorganisms			100	mg	/I		
Health - Derived no-	effect level - DNEL	DMEL			Effects on			

Effects on workers

Acute local

Acute

Chronic local

3,3 mg/m3

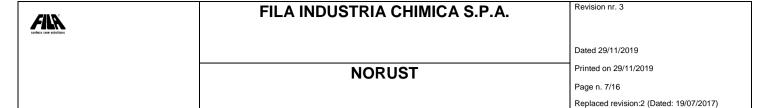
VND

Chronic

VND

systemic

1 mg/kg/d



According to Annex II to REACH - Regulation 2015/830

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.

TLV of solvent mixture: 7,5 mg/m3

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

### EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

In the presence of risks of exposure to splashes or squirts during work, adequate mouth, nose and eye protection should be used to prevent accidental absorption.

#### 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 B 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** 



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(EU) no. 2015/830

According to Annex II to REACH - Regulation 2015/830

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

Appearance viscous liquid Colour transparent Odour characteristic Odour threshold Not available

7,6

Melting point / freezing point Not available Initial boiling point Not available Boiling range Not available > 93 °C Flash point **Evaporation Rate** Not available Flammability of solids and gases not applicable Lower inflammability limit Not available Upper inflammability limit Not available Lower explosive limit Not available Upper explosive limit Not available Vapour pressure Not available Vapour density Not available Relative density 1,067 Solubility soluble Partition coefficient: n-octanol/water Not available Not available Auto-ignition temperature Decomposition temperature Not available Viscosity Not available

### 9.2. Other information

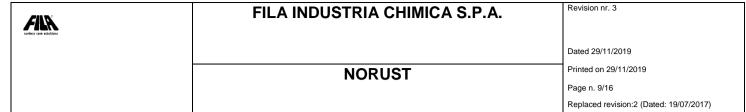
Explosive properties Oxidising properties

VOC (Directive 2010/75/EC): 0,09 % - 0,96 g/litre VOC (volatile carbon): 0,04 % - 0,38 g/litre

not applicable

not applicable

# **SECTION 10. Stability and reactivity**



According to Annex II to REACH - Regulation 2015/830

#### 10.1. Reactivity

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

#### 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.

#### **ETHANOLAMINE**

May react dangerously with: acrylonitrile,chloroepoxypropane,chlorosulphuric acid,hydrogen chloride,iron-sulphur compounds,acetic acid,acetic anhydride,mesityl oxide,nitric acid,sulphuric acid,strong acids,vinyl acetate,cellulose nitrate.

#### 10.4. Conditions to avoid

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

### ETHANOLAMINE

Avoid exposure to: air, sources of heat.

### 10.5. Incompatible materials

None.

### ETHANOLAMINE

Incompatible with: iron, strong acids, strong oxidants.

### 10.6. Hazardous decomposition products

Due to thermal decomposition or in case of fire, gases and vapors can be released that are potentially harmful to health.

### ETHANOLAMINE

May develop: nitric oxide,carbon oxides.

# **SECTION 11. Toxicological information**



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

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

#### 11.1. Information on toxicological effects

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

(EU) no. 2015/830

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**

LC50 (Inhalation) of the mixture:
Not classified (no significant component)
LD50 (Oral) of the mixture:
>2000 mg/kg
LD50 (Dermal) of the mixture:
Not classified (no significant component)

SODIUM THIOGLYCOLATE

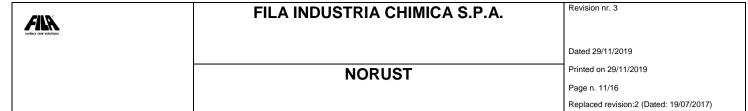
LD50 (Oral) 504 mg/kg

ETHANOLAMINE

LD50 (Oral) 1515 mg/kg rat male/female

LD50 (Dermal) 2504 mg/kg male rabbit

SKIN CORROSION / IRRITATION



According to Annex II to REACH - Regulation 2015/830

Causes skin 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

### 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

### ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

# **SECTION 12. Ecological information**

No specific data are available for this product. Handle it according to good working practices. Avoid littering. Do not contaminate soil and waterways. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation. Please take all the proper measures to reduce harmful effects on aquifers.

# 12.1. Toxicity

**ETHANOLAMINE** 



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LC50 - for Fish 349 mg/l/96h Cyprinus carpio EC50 - for Crustacea 65 mg/l/48h Daphnia Magna

EC50 - for Algae / Aquatic Plants 2,1 mg/l/72h Pseudokirchnerella subcapitata

Chronic NOEC for Fish 1,24 mg/l 41d Oryzias latipes

12.2. Persistence and degradability

ETHANOLAMINE

(EU) no. 2015/830

Solubility in water 1000 - 10000 mg/l

Rapidly degradable >70% 28d

12.3. Bioaccumulative potential

**ETHANOLAMINE** 

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

12.4. Mobility in soil

**ETHANOLAMINE** 

Partition coefficient: soil/water -0,5646

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 greater than 0,1%.

12.6. Other adverse effects

Information not available

# **SECTION 13. Disposal considerations**

#### 13.1. Waste treatment methods

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

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

CONTAMINATED PACKAGING

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

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CECTION 44 Transport	information	
<b>SECTION 14. Transport</b>	Information	
4.1. UN number  Not applicable	Goods Code (IMDG), and of the International Air Transport Association (I	,,
4.2. UN proper shipping name		
Not applicable		
4.3. Transport hazard class(es)		
Not applicable		
4.4. Packing group		
lot applicable		
4.5. Environmental hazards		
lot applicable		

14.6. Special precautions for user

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

Not applicable

(RID), of

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Information not relevant

# **SECTION 15. Regulatory information**

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

Seveso Category - Directive 2012/18/EC: None

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

Product Point

Substances in Candidate List (Art. 59 REACH)

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

Substances subject to authorisation (Annex XIV REACH)

None

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

3

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.

### 15.2. Chemical safety assessment

A chemical safety assessment has been performed for the following contained substances



**NORUST** 

Revision nr. 3

Dated 29/11/2019
Printed on 29/11/2019

Page n. 15/16

Replaced revision:2 (Dated: 19/07/2017)

Safety data sheet according to regulation (CE) n. 1907/2006 (REACH), Annex II, and successive adjustments introduced by Commission Regulation According to Annex II to REACH - Regulation 2015/830

#### ETHANOLAMINE

(EU) no. 2015/830

### **SECTION 16. Other information**

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

Acute Tox. 4 Acute toxicity, category 4

Skin Corr. 1B Skin corrosion, category 1B

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 Chronic 3 Hazardous to the aquatic environment, chronic toxicity, category 3

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H332 Harmful if inhaled.

H314 Causes severe skin burns and eye damage.

H319 Causes serious eye irritation.

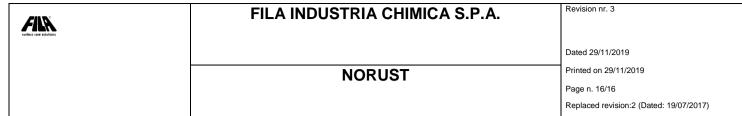
H315 Causes skin irritation.

H335 May cause respiratory irritation.

H412 Harmful to aquatic life with long lasting effects.

#### LEGEND:

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



According to Annex II to REACH - Regulation 2015/830

- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

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- 4. Regulation (EU) 2015/830 of the European Parliament
- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
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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
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- 15. Regulation (EU) 2018/1480 (XIII 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.

Changes to previous review:

The following sections were modified:

01 / 02 / 03 / 08 / 09 / 10 / 11.