Малара		Revision nr. 1
weccano	Gai Italia J.I.I.	Dated 19/02/2020
		First compilation
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	Safety Data Sheet	
Accord	ding to Annex II to REACH - Regulation 2015/830	
SECTION 1. Identification of the sub	stance/mixture and of the company/under	taking
		_
1.1. Product identifier	444 00 44 400 0700:	
Code: Product name	411 00 11400-27001 POLYESTER RESIN	
1.2. Relevant identified uses of the substance or n	nixture and uses advised against	
Intended use Catalyst for polyeste	r resins	
1.3. Details of the supplier of the safety data sheet		
Name	Meccanocar Italia S.r.I.	
Full address	Via San Francesco, 22	
District and Country	Italy	
	Tel. +39 0587 609433	
	Fax +39 0587 607145	
e-mail address of the competent person		
responsible for the Safety Data Sheet	moreno.meini@meccanocar.it	
1.4. Emergency telephone number	National Poisons Information Service: +44 121 507 4123	
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:		
Flammable liquid, category 3	H226	Flammable liquid and vapour.
Reproductive toxicity, category 2	H361	Suspected of damaging fertility or the unborn child.
Acute toxicity, category 4	H332	Harmful if inhaled.
Specific target organ toxicity - repeated exposure, category 1	H372	Causes damage to organs through prolonged or repeated
Eye irritation, category 2	H319	Causes serious eye irritation.
Skin irritation, category 2	H315	Causes skin irritation.
Specific target organ toxicity - single exposure, category 3	H335	May cause respiratory irritation.
Hazardous to the aquatic environment, chronic toxicity,	H412	Harmful to aquatic life with long lasting effects.
category 3		

2.2. Label elements



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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

Extinguishing substances are: carbon dioxide, foam, chemical powder. For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapours and protect those trying to stem the leak. UNSUITABLE EXTINGUISHING EQUIPMENT

Do not use jets of water. Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE Excess pressure may form in containers exposed to fire at a risk of explosion. 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.

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Send away individuals who are not suitably equipped. Use explosion-proof equipment. Eliminate all sources of ignition (cigarettes, flames, sparks, etc.) from the leakage site.

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

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat. Avoid leakage of the product into the environment.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store in a cool and well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. 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:

CTIDENE

ESP	España	LÍMITES DE EXPOSICIÓN PROFESIONAL PARA AGENTES QUÍMICOS EN ESPAÑA 2019 (INSST)
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Third edition, published 2018)
NOR	Norge	Fastsatt av Arbeids- og sosialdepartementet 21. august 2018 med hjemmel i lov 17. juni 2005 nr. 62 om arbeidsmiljø, arbeidstid, stillingsvern mv. (arbeidsmiljøloven) § 1-3, § 1-4 og § 4-5
	TLV-ACGIH	ACGIH 2019

OTIMENE							
Threshold Limit Value							
Туре	Country	TWA/8h		STEL/15min		Remarks /	
						Observations	
		mg/m3	ppm	mg/m3	ppm		
		Ŭ	••	U U			
VLA	ESP	86	20	172	40		

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VLEP	FRA	100	23,3	200	46,6			
WEL	GBR	430	100	1080	250			
TLV	NOR	105	25					
TLV-ACGIH		85	20	170	40			
Predicted no-effect concentrati	ion - PNEC							
Normal value in fresh water				0,028	mg	//		
Normal value in marine water				0,014	mg	/I		
Normal value for fresh water se	ediment			0,614	mg	/kg		
Normal value for marine water	sediment			0,307	mg	/kg		
Normal value of STP microorga	anisms			5	mg	/I		
Normal value for the terrestrial	compartment			0,2	mg	/kg		
Health - Derived no-effec	t level - DNEL / D	OMEL						
	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				2,1 mg/kg bw/d		Gyotomic		oyotonno
Inhalation	182,75 mg/m3		174,25 mg/m3	10,2 mg/m3	306 mg/m3		289 mg/m3	85 mg/m3
Skin				343 mg/kg bw/d				406 mg/kg bw/d
egend.								

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

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

8.2. Exposure controls

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

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

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

Provide an emergency shower with face and eye wash station.

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

HAND PROTECTION

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

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

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

SKIN PROTECTION

Wear category 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.

Consider the appropriateness of providing antistatic clothing in the case of working environments in which there is a risk of explosion.

EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

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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 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

Appearance	liquido limpido
Colour	yellowish
Odour	characteristic
Odour threshold	Not available
pH	Not available
Melting point / freezing point	Not available
Initial boiling point	Not available
Boiling range	Not available
Flash point	31 °C
Evaporation rate	Not available
Flammability (solid, gas)	Not available
Lower inflammability limit	1,1 % (V/V)
Upper inflammability limit	6,1 % (V/V)
Lower explosive limit	Not available
Upper explosive limit	Not available
Vapour pressure	Not available
Vapour density	3,6
Relative density	Not available
Solubility	insoluble in water
Partition coefficient: n-octanol/water	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	> 280 mm2/s
Explosive properties	Not available
Oxidising properties	Not available

9.2. Other information

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Information not available

SECTION 10. Stability and reactivity

10.1. Reactivity

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

STIRENE

Polymerises at temperatures above 65°C/149°F.Fire hazard.Possibility of explosion.

Viene addizionato con inibitore che richiede una piccola quantità di ossigeno disciolto a temperatura < 25°C/77°F.

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

The vapours may also form explosive mixtures with the air.

STIRENE

May react dangerously with: peroxides, strong acids. May polymerise on contact with: aluminium trichloride, azobisis obutyronitrile, dibenzoyl peroxide, sodium. Risk of explosion on contact with: butyllithium, chlorosulphuric acid, diterbutyl peroxide, oxidising substances, oxygen.

10.4. Conditions to avoid

Avoid overheating. Avoid bunching of electrostatic charges. Avoid all sources of ignition.

STIRENE

Avoid contact with: oxidising substances,copper,strong acids.

10.5. Incompatible materials

STIRENE

Incompatible materials: plastic materials.

10.6. Hazardous decomposition products

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.

SECTION 11. Toxicological information

11.1. Information on toxicological effects

Metabolism, toxicokinetics, mechanism of action and other information

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Information not available

Information on likely routes of exposure

STIRENE

LAVORATORI: inalazione; contatto con la cute.

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

STIRENE

La tossicità acuta per inalazione a 1000 ppm interessa il sistema nervoso centrale con cefalee, vertigini e difficoltà di coordinamento; irritazione delle mucose degli occhi e delle vie respiratorie si hanno a 500 ppm. L'esposizione cronica dà depressione del sistema nervoso centrale e periferico con perdita di memoria, cefalee e sonnolenza a partire da 20 ppm; disordini digestivi con nausea e perdita d'appetito; irritazione delle vie respiratorie con bronchiti croniche; dermatosi. L'esposizione ripetuta, a basse dosi di sostanza per via inalatoria, causa alterazioni irreversibili della funzione uditiva e può causare alterazioni della visione dei colori. Non sono disponibili dati certi sulla reversibilità del danno visivo. Esposizioni cutanee ripetute causano irritazione. La sostanza sgrassa la cute, che può provocare secchezza e screpolature.

Interactive effects

STIRENE

Il metabolismo della sostanza è inibito dall'etanolo. Quando lo stirene viene fotossidato con l'ozono e il diossido di azoto, come nella formazione dello smog, si possono avere prodotti altamente irritanti per gli occhi nell'uomo.

ACUTE TOXICITY

LC50 (Inhalation) of the mixture: > 20 mg/l LD50 (Oral) of the mixture: Not classified (no significant component) LD50 (Dermal) of the mixture: Not classified (no significant component)

STIRENE

Method: OECD 402 Reliability: 1 Species: Rat (Crj: CD (SD) IGS; male / female) Route of exposure: Dermal Results: LD50> 2000 mg / kg bw

SKIN CORROSION / IRRITATION

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

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GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

STIRENE

Method: Equivalent or similar to OECD 471 in vitro test Reliability: 2 Species: S. typhimurium Results: Positive with metabolic activation Method: OECD 474-test in vivo Reliability: 1 Species: Mouse (NMRI; male) Route of exposure: Inhalation (vapors) Results: Negative

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

STIRENE

Classificata nel gruppo 2B (possibile cancerogeno per l'uomo) dalla International Agency for Research on Cancer (IARC) - (IARC, 2002). Classificata come "probabile cancerogeno" dalla US National Toxicology Program (NTP) - (US DHHS, 2014).

REPRODUCTIVE TOXICITY

Suspected of damaging fertility or the unborn child

Adverse effects on sexual function and fertility STIRENE

Method: OECD 416 Reliability: 2 Species: Rat (Crj: CD (SD); male / female) Route of exposure: Inhalation Results: Negative, NOAEC (fertility) = 0.21 mg / L air

Adverse effects on development of the offspring STIRENE

Method: Not indicated Reliability: 2 Species: Rat (Crj: CD (SD)) Route of exposure: Inhalation (vapors) Results: Negative, NOAEC (development) = 0.21 mg / L air Bibliographic reference: European risk assessment report, Styrene CAS No. 100-42-5, EINECS No. 202-851-5, Draft for submission to SCHER, November 2007, European Union (2007)

STOT - SINGLE EXPOSURE

May cause respiratory irritation

STIRENE

Based on available data and through expert judgment, the substance is classified in the target organ toxicity class for single exposure.

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Target organ STIRENE

Nose

Route of exposure STIRENE

Inhalation

STOT - REPEATED EXPOSURE

Causes damage to organs

STIRENE

Method: Not indicated Reliability: 2 Species: Rat (Fischer 344; male / female) Route of exposure: Oral Results: NOAEL = 1000 mg / kg bw / day Bibliographic reference: European risk assessment report, Styrene CAS No. 100-42-5, EINECS No. 202-851-5, Draft for submission to SCHER, November 2007, European Union (2007) Method: Not indicated Reliability: 2 Species: Rat (Fischer 344; male) Route of exposure: Inhalation Results: Negative, NOAEC = 0.85 mg / L air Bibliographic reference: European risk assessment report, Styrene CAS No. 100-42-5, EINECS No. 202-851-5, Draft for submission to SCHER, November 2007, European Union (2007)

Target organ STIRENE

Ear

Route of exposure STIRENE

Inhalation

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

SECTION 12. Ecological information

This product is dangerous for the environment and the aquatic organisms. In the long term, it have negative effects on aquatic environment. **12.1. Toxicity**

STIRENE	
LC50 - for Fish	4,02 mg/l/96h
EC50 - for Crustacea	4,7 mg/l/48h
EC50 - for Algae / Aquatic Plants	4,9 mg/l/72h

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12.2. Persistence and degradability

STIRENE					
STIRENE					
Solubility in water	320 mg/l				
Rapidly degradable 12.3. Bioaccumulative potential					
STIRENE					
Partition coefficient: n-octanol/water	2,96				
BCF	74				
12.4. Mobility in soil					
STIRENE					
Partition coefficient: soil/water	2,55				
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.

Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

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

SECTION 14. Transport information

14.1. UN number

ADR / RID, IMDG, 1263 IATA:

14.2. UN proper shipping name

ADR / RID: PAINT or PA

PAINT or PAINT RELATED MATERIAL

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IMDG:PAINT or PAINT RELATED MATERIALIATA:PAINT or PAINT RELATED MATERIAL

14.3. Transport hazard class(es)

ADR / RID:	Class: 3	Label: 3
IMDG:	Class: 3	Label: 3
IATA:	Class: 3	Label: 3



14.4. Packing group

ADR / RID, IMDG, III IATA:

14.5. Environmental hazards

ADR / RID:	NO
IMDG:	NO
IATA:	NO

14.6. Special precautions for user

ADR / RID:	HIN - Kemler: 30 Special Provision: -	Limited Quantities: 5 L	Tunnel restriction code: (D/E)
IMDG:	EMS: F-E, <u>S-E</u>	Limited Quantities: 5 L	
IATA:	Cargo:	Maximum quantity: 220 L	Packaging instructions: 366
	Pass.:	Maximum quantity: 60 L	Packaging instructions: 355
	Special Instructions:	A3, A72, A192	

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

Information not relevant

SECTION 15. Regulatory information

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

Seveso Category - Directive 2012/18/EC: P5c

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

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Product Point

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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:

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 not been performed for the preparation/for the substances indicated in section 3.

SECTION 16. Other information

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

Flam. Liq. 3	Flammable liquid, category 3
Repr. 2	Reproductive toxicity, category 2
Acute Tox. 4	Acute toxicity, category 4
STOT RE 1	Specific target organ toxicity - repeated exposure, 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 Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3
H226	Flammable liquid and vapour.
H361	Suspected of damaging fertility or the unborn child.
H332	Harmful if inhaled.
H372	Causes damage to organs through prolonged or repeated exposure.

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H319	Causes serious eye irritation.
H315	Causes skin irritation.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.
Harra Harraful to aquatic life with long lasting effects. LEGEND: ADR: European Agreement concerning the carriage of Dangerous goods by Road C AS NUMBER: Chemical Abstract Service Number C ESD: Effective concentration (required to induce a 50% effect). C ENUMBER: Identifier in ESIS (European archive of existing substances). C ENUMBER: Identifier in ESIS (European archive of existing substances). C ENUMBER: Identifier in ESIS (European archive of existing substances). C ENUMBER: Identifier in ESIS (European archive of existing substances). C ENUMBER: Identifier in ESIS (European archive of existing substances). C ENUMBER: Identifier in ESIS (European archive of existing substances). C ENUMBER: Identifier in ASIS (European archive of existing substances). C ESI Immedional Air Transport Association and labeling of chemicals. IATA DGR: International Maritime Organization C ESI: International Maritime Organization IMDE: International Maritime Organization IMDEX NUMBER: Identifier in Annex VI of CLP L ESIS: Elatal dose 50% I ESIS: Corcupational Exposure Level PEI: Predicted environmental Concentration PEI: Predicted environmental Concentration PEI: Predicted environmental Concentration R EX Predicted envinformeration and transport of dangerous goods by trai	
GENERAL BIBLIOGRAPHY 1. Regulation (EC) 1907/200 2. Regulation (EC) 1907/200 3. Regulation (EC) 1272/200 3. Regulation (EU) 2015/830 5. Regulation (EU) 2015/830 5. Regulation (EU) 2015/830 5. Regulation (EU) 2015/2014 6. Regulation (EU) 2018/2011 7. Regulation (EU) 944/2011 9. Regulation (EU) 944/2011 9. Regulation (EU) 9015/11 10. Regulation (EU) 2015/11 11. Regulation (EU) 2015/11 12. Regulation (EU) 2016/91 12. Regulation (EU) 2017/77 14. Regulation (EU) 2018/61 15. Regulation (EU) 2018/61 16. Regulation (EU) 2018/61 17. Regulation (EU) 2018/61 18. Regulation (EU) 2018/61 19. Regulation (EU) 20	<pre>very blockconnumber as for rCEACH regulation es (German). // // // // // // // // // // // // //</pre>

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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. Product's classification is based on the calculation methods set out in Annex I of the CLP Regulation, unless otherwise indicated in sections 11 and 12.

The data for evaluation of chemical-physical properties are reported in section 9.