

## Icema™ R 145/31

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 19.05.2022

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 03.12.2022
 100000020120
 Date of first issue: 19.05.2022

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name : Icema™ R 145/31

Product code : 00000000015026606

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

Use of the Sub-

stance/Mixture

: Adhesive

Recommended restrictions

on use

For industrial use only.

1.3 Details of the supplier of the safety data sheet

Company : H.B. Fuller, Isar-Rakoll, S.A.

Address : Estrada Nacional 13

PT-4486-851 Mindelo - Vila do Conde

+351 229 288 200

E-mail address of person

responsible for the SDS

: EU-MSDS@hbfuller.com

1.4 Emergency telephone number

Emergency telephone number : +44 1235 239 670 (24 hours)

National Poisons Information Centre (NPIC): 01 809 2566 (24

hours)

## **SECTION 2: Hazards identification**

## 2.1 Classification of the substance or mixture

#### Classification (REGULATION (EC) No 1272/2008)

Acute toxicity, Category 4 H332: Harmful if inhaled.

Skin irritation, Category 2 H315: Causes skin irritation.

Eye irritation, Category 2 H319: Causes serious eye irritation.

Respiratory sensitisation, Category 1 H334: May cause allergy or asthma symptoms or

breathing difficulties if inhaled.

Skin sensitisation, Category 1 H317: May cause an allergic skin reaction.



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Carcinogenicity, Category 2 H351: Suspected of causing cancer.

Specific target organ toxicity - single exposure, Category 3, Respiratory system

H335: May cause respiratory irritation.

Specific target organ toxicity - repeated

exposure, Category 2

H373: May cause damage to organs through pro-

longed or repeated exposure.

#### 2.2 Label elements

## Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms





Signal word : Danger

Hazard statements : H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H334 May cause allergy or asthma symptoms or breathing

difficulties if inhaled.

H335 May cause respiratory irritation.H351 Suspected of causing cancer.

H373 May cause damage to organs through prolonged or

repeated exposure.

Precautionary statements : Prevention:

P201 Obtain special instructions before use.

P260 Do not breathe mist or vapours.

P264 Wash skin thoroughly after handling.

P280 Wear protective gloves/ protective clothing/ eye protec-

tion/ face protection/ hearing protection.

Response:

P304 + P340 + P312 IF INHALED: Remove person to fresh

air and keep comfortable for breathing. Call a POISON

CENTER/ doctor if you feel unwell.

P342 + P311 If experiencing respiratory symptoms: Call a

POISON CENTER/ doctor.

## Hazardous components which must be listed on the label:

Diphenylmethanediisocyanate, polymeric

Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-hydro-.omega.-hydroxy-, polymer with 1,1'-methylenebis[4-isocyanatobenzene]

4,4'-Methylenediphenyl diisocyanate, oligomers

4,4'-Methylenediphenyl diisocyanate, oligomeric reaction products with butane-1,3-diol, 2,4'-

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diisocyanatodiphenylmethane, 2,2'-oxydiethanol and propane-1,2-diol dibutyltin dilaurate

## **Additional Labelling**

EUH204 Contains isocyanates. May produce an allergic reaction.

"As from 24 August 2023 adequate training is required before industrial or professional use."

#### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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

#### 3.2 Mixtures

#### Components

Chemical name	CAS-No.	Classification	Concentration
	EC-No.		(% w/w)
	Index-No.		
	Registration number		
Diphenylmethanediisocyanate, polymeric	9016-87-9	Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Resp. Sens. 1; H334 Skin Sens. 1; H317 STOT SE 3; H335 (Respiratory system) STOT RE 2; H373 Carc. 2; H351  specific concentration limit Eye Irrit. 2; H319 >= 5 % STOT SE 3; H335 >= 5 % Skin Irrit. 2; H315 >= 5 % Resp. Sens. 1; H334 >= 0,1 %  Acute toxicity estimate	>= 30 - < 50
		mate	
		Acute inhalation tox-	
		icity (dust/mist): 1,5	



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		mg/l	
Poly[oxy(methyl-1,2-ethanediyl)], .alphahydroomegahydroxy-, polymer with 1,1'-methylenebis[4-isocyanatobenzene]	9048-57-1 500-028-8	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Resp. Sens. 1; H334 Skin Sens. 1; H317	>= 1 - < 10
4,4'-Methylenediphenyl diisocyanate, oligomers	25686-28-6 500-040-3 01-2119457013-49- 0000	Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Resp. Sens. 1; H334 Skin Sens. 1; H317 STOT SE 3; H335 (Respiratory system) STOT RE 2; H373 (Respiratory system) Carc. 2; H351 Acute toxicity esti-	>= 1 - < 10
		mate  Acute inhalation toxicity (dust/mist): 1,5 mg/l	
4,4'-Methylenediphenyl diisocyanate, oligomeric reaction products with butane-1,3-diol, 2,4'-diisocyanatodiphenylmethane, 2,2'-oxydiethanol and propane-1,2-diol	158885-29-1 500-415-1	Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Resp. Sens. 1; H334 Skin Sens. 1; H317 Carc. 2; H351 STOT SE 3; H335 (Respiratory system) STOT RE 2; H373	>= 1 - < 10
		Acute toxicity esti- mate	
		Acute inhalation toxicity (dust/mist): 1,5 mg/l	
dibutyltin dilaurate	77-58-7 201-039-8 050-030-00-3 01-2119496068-27- 0000	Muta. 2; H341 STOT SE 1; H370 Aquatic Acute 1; H400 Skin Sens. 1; H317 Skin Corr. 1C; H314 Repr. 1B; H360FD STOT RE 1; H372 (Immune system) Aquatic Chronic 1;	>= 0,1 - < 0,25

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H410 Eye Dam. 1; H318

For explanation of abbreviations see section 16.

#### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

General advice : Immediately remove clothing if soiled by product.

Even minimal concentrations of isocyanate can lead to a reac-

tion in sensitised people.

Symptoms that may occur include the following:

irritation of the eyes, nose, throat and lungs, possibly together with a dry throat, a feeling of chest tightness and breathing

difficulties.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the

accident.

Show this safety data sheet to the doctor in attendance.

If inhaled : Remove person to fresh air. If signs/symptoms continue, get

medical attention.

In case of unconsciousness bring patient into stable side posi-

tion for transport.

In case of skin contact : Treat affected skin with cotton wool or cellulose.

Wash off immediately with plenty of water.

Use a mild soap if available.

If symptoms persist, call a physician.

In case of eye contact : Flush eyes with water at least 15 minutes. Get medical atten-

tion if eye irritation develops or persists.

If swallowed : If accidentally swallowed obtain immediate medical attention.

Do NOT induce vomiting.

If symptoms persist, call a physician.

#### 4.2 Most important symptoms and effects, both acute and delayed

None known.

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

Treatment : In instances of existing sensitisation towards isocyanates, a

doctor should be consulted with regards to work-related contact with other sensitising substances, or substances which

irritate the airway.

Treatment for exposure should be geared towards monitoring

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symptoms and the patient's clinical condition.

It must be ensured that the patient has sufficient ventilation

and oxygen supply.

Isocyanates can cause sensitisation of the airways, or asthma-like symptoms (bronchospasms). Delayed breathing

symptoms, including lung oedema, may occur.

People who have shown signs of breathlessness after considerable exposure should remain under observation for 24-48

hours.

## **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local cir-

cumstances and the surrounding environment.

Water spray

Alcohol-resistant foam

Dry powder

Carbon dioxide (CO2)

Unsuitable extinguishing

media

: Water with a full water jet

## 5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-

fighting

May release toxic, irritating and/or corrosive gases.

In case of fire CO, NOx, isocyanates and traces of HCN can

be formed.

#### 5.3 Advice for firefighters

Special protective equipment :

for firefighters

Wear an approved positive pressure self-contained breathing

apparatus in addition to standard fire fighting gear.

Further information : Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

#### **SECTION 6: Accidental release measures**

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

Personal precautions : Use personal protective equipment.

Use breathing protection against the effects of

fumes/dust/aerosol.

Evacuate personnel to safe areas. Ensure adequate ventilation.



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#### 6.2 Environmental precautions

Environmental precautions : The product should not be allowed to enter drains, water

courses or the soil.

If the product contaminates rivers and lakes or drains inform

respective authorities.

## 6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust). Non-sparking tools should be used.

Ensure adequate ventilation.

Send for recovery or disposal in suitable containers.

Dispose of contaminated material as waste according to sec-

tion 13.

#### 6.4 Reference to other sections

Refer to protective measures listed in sections 7 and 8.. For disposal considerations see section 13.

## **SECTION 7: Handling and storage**

## 7.1 Precautions for safe handling

Advice on safe handling : Ensure good ventilation. This can be achieved by using a local

exhaustion or general exhaust system. If these measures are insufficient to keep the vapor concentration below the work-place limit, wear an adequate respiratory protective device.

Take note of emission threshold. Avoid formation of aerosol. Do not heat the product.

Ensure that suitable extractors are available on processing

machines.

Handle with care. Avoid inhalation and skin contact. Keep eye wash bottle available on working place.

Avoid release to the environment.

Keep away from children.

Advice on protection against

fire and explosion

In the event of fire and/or explosion do not breathe fumes. Keep breathing equipment ready. Have fire extinguishing

equipment ready in case of nearby fire.

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

Requirements for storage areas and containers

: Keep dark, cool and dry. Do not freeze.

Further information on stor-

age conditions

: Keep containers tightly closed in a dry, cool and well-

ventilated place.

Advice on common storage : Keep away from food, drink and animal feedingstuffs.

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Dampness : Keep containers dry and tightly closed to avoid moisture ab-

sorption and contamination.

7.3 Specific end use(s)

Specific use(s) : No further relevant information available.

## **SECTION 8: Exposure controls/personal protection**

## 8.1 Control parameters

## **Occupational Exposure Limits**

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Diphenylme- thanediisocyanate, polymeric	9016-87-9	OELV - 8 hrs (TWA)	0,02 mg/m3 (As -NCO)	IE OEL
	Further inform	nation: Chemical age	ents which following exposure	may cause
	sensitisation of	of the respiratory trac	ct and lead to asthma, rhinitis	or extrinsic
	allergic alveol			
		OELV - 15 min	0,07 mg/m3	IE OEL
		(STEL)	(As -NCO)	
	Further information: Chemical agents which following exposure may cause sensitisation of the respiratory tract and lead to asthma, rhinitis or extrinsic allergic alveolitis			
		OELV - 8 hrs (TWA)	0,02 mg/m3 (NCO)	IE OEL
	Further information: Chemical agents which following exposure may cause sensitisation of the respiratory tract and lead to asthma, rhinitis or extrinsic allergic alveolitis			
		OELV - 15 min	0,07 mg/m3	IE OEL
		(STEL)	(NCO)	
	Further information: Chemical agents which following exposure may cause			
	sensitisation of the respiratory tract and lead to asthma, rhinitis or extrinsic allergic alveolitis			
dibutyltin dilaurate	77-58-7	OELV - 8 hrs	0,1 mg/m3	IE OEL
		(TWA)	(Tin)	
	Further inform	nation: Indicative Occ	cupational Exposure Limit Va	lue
		OELV - 15 min	0,2 mg/m3	IE OEL
		(STEL)	(Tin)	
	Further information: Indicative Occupational Exposure Limit Value			
		OELV - 8 hrs	0,1 mg/m3	IE OEL
		(TWA)	(Tin)	
	Further information: Indicative Occupational Exposure Limit Value			
		OELV - 15 min	0,2 mg/m3	IE OEL
		(STEL)	(Tin)	
	Further inform	nation: Indicative Occ	cupational Exposure Limit Va	lue

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#### 8.2 Exposure controls

#### **Engineering measures**

Please take care on national and local requirements.

#### Personal protective equipment

Eye protection : Tightly fitting safety goggles

Hand protection

Remarks

Direct contact with the isocyanate-based product must be avoided by organizational measures.

The glove material has to be impermeable and resistant to the product/the substance/the preparation.

The exact break through time can be obtained from the protective glove producer and this has to be observed.

The gloves need to be disposed after the penetration time and replaced by new ones.

Apply skin protectant before working with gloves to avoid skin swellings and use a skin cleansing and skincare product after the work.

# For the permanent contact gloves made of the following materials are suitable:

If longer exposure to the chemical preparation is necessary, a sturdy overglove against mechanical strain is recommended in combination with the Barrier 02-100 underglove from Ansell or other suppliers (penetration time: 480 min).

For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:

Butyl rubber (minimum thickness: 0.7 mm; penetration time:

Butyl rubber (minimum thickness: 0.7 mm; penetration time: 15 min)

# As protection from splashes gloves made of the following materials are suitable:

Nitril (minimum thickness 0.12 mm), Disposable gloves with long cuffs

After contact with the chemical preparation, take the disposable nitrile glove off immediately and put on a new disposable nitrile glove.

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Skin and body protection : Protective clothing

When carrying out activities where unintentional skin contact with the isocyanate-based product may occur (e.g. during maintenance work, or when opening a barrel), wear long-

sleeved protective clothing and gloves.

Respiratory protection : Use respiratory protection unless adequate local exhaust ven-

tilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines. In case of brief exposure or low pollution (exceeding of TLV)

use breathing filter apparatus.

In case of intensive or longer exposure use breathing appa-

ratus that is independent of circulating air.

Filter type : For short term use a combination of charcoal filter and particu-

late filter is recommended.

Protective measures : Instantly remove any soiled and impregnated garments.

Wash hands before breaks and immediately after handling

the product.

Avoid contact with the eyes and skin. Store protective clothing separately.

Keep away from food, drink and animal feedingstuffs.

#### **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

Physical state : liquid

Colour : yellow

Odour : slight

Odour Threshold : is not determined

Melting point/freezing point : is not determined

Boiling point/boiling range : is not determined

Flash point : 200 °C

Auto-ignition temperature : is not determined

Decomposition temperature : Not applicable

pH : is not determined

Viscosity



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Viscosity, dynamic : 7.200 mPa.s (20 °C)

Solubility(ies)

Water solubility : partly soluble, reacts with water

Partition coefficient: n-

octanol/water

: no data available

Density : 1,13 g/cm³ (20 °C)

Relative vapour density : is not determined

9.2 Other information

Explosives : Not explosive

Evaporation rate : is not determined

## **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

No further relevant information available.

#### 10.2 Chemical stability

No decomposition if used according to the specifications.

## 10.3 Possibility of hazardous reactions

Hazardous reactions : Reacts with alcohols, amines, aqueous acids and alkalis.

Mixture reacts with water resulting in evolution of CO2. Evolution of CO2 in closed containers causes overpressure

and produces a risk of bursting.

10.4 Conditions to avoid

Conditions to avoid : No further relevant information available.

10.5 Incompatible materials

Materials to avoid : No further relevant information available.

## 10.6 Hazardous decomposition products

In case of fire hazardous decomposition products may be produced such as:

Nitrogen oxides (NOx)

Isocyanates

Additional information: Open and release pressure carefully with pressurised containers.



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## **SECTION 11: Toxicological information**

#### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### **Acute toxicity**

**Product:** 

Acute oral toxicity : Based on available data, the classification criteria are not met.

Acute inhalation toxicity : Based on available data, the classification criteria are not met.

Acute toxicity estimate: 1,48 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist Method: Calculation method

Acute dermal toxicity : Based on available data, the classification criteria are not met.

#### **Components:**

#### Diphenylmethanediisocyanate, polymeric:

Acute inhalation toxicity : LC50 (Rat): 0,49 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Acute toxicity estimate: 1,5 mg/l Test atmosphere: dust/mist Method: Calculation method

## 4,4'-Methylenediphenyl diisocyanate, oligomers:

Acute inhalation toxicity : LC50: 1,5 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Acute toxicity estimate: 1,5 mg/l Test atmosphere: dust/mist Method: Calculation method

4,4'-Methylenediphenyl diisocyanate, oligomeric reaction products with butane-1,3-diol, 2,4'-

diisocyanatodiphenylmethane, 2,2'-oxydiethanol and propane-1,2-diol:

Acute inhalation toxicity : LC50: 1,5 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Acute toxicity estimate: 1,5 mg/l Test atmosphere: dust/mist Method: Calculation method

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#### 11.2 Information on other hazards

#### **Endocrine disrupting properties**

#### **Product:**

Assessment : The substance/mixture does not contain components consid-

ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at

levels of 0.1% or higher.

## **SECTION 12: Ecological information**

#### 12.1 Toxicity

No data available

#### 12.2 Persistence and degradability

No data available

#### 12.3 Bioaccumulative potential

No data available

## 12.4 Mobility in soil

#### **Product:**

Mobility : Medium: Soil

Remarks: Do not allow product to reach ground water, water bodies or sewage system., Very toxic to aquatic organisms, Toxic effects on fish and plankton, Danger to drinking water if

even extremely small quantities leak into soil.

#### 12.5 Results of PBT and vPvB assessment

#### **Product:**

Assessment : This substance/mixture contains no components considered

to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of

0.1% or higher.

## 12.6 Endocrine disrupting properties

#### **Product:**

Assessment : The substance/mixture does not contain components consid-

ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at

levels of 0.1% or higher.

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#### 12.7 Other adverse effects

No data available

#### **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

Product : Do not dispose of with domestic refuse.

Do not dispose of waste into sewer.

Hand over to disposers of hazardous waste.

The generation of waste should be avoided or minimized

wherever possible.

Incinerate under controlled conditions in accordance with all

local and national laws and regulations.

Disposal must be made according to official regulations.

These EU waste code numbers are recommendations for waste accruing through the use of adhesives and sealants. Any waste produced from organic solvents or other dangerous substances (according GHS) listed under section 3 of this safety datasheet is itself classified as dangerous (\*).

#### Waste accruing during application:

08 04 09\* waste adhesives and sealants containing or-

ganic solvents or other dangerous substances

08 04 10 waste adhesives and sealants other than

those mentioned in 08 04 09

## Waste accruing during cleaning:

08 04 11\* adhesive and sealant sludges containing or-

ganic solvents or other dangerous substances

08 04 12 adhesive and sealant sludges other than

those mentioned in 08 04 11

## Waste packaging:

15 01 01 paper and cardboard packaging

15 01 02 plastic packaging 15 01 04 metallic packaging

15 01 10\* packaging containing residues of or contami-

nated by dangerous substances.

Contaminated packaging : Disposal must be made according to official regulations.

#### **SECTION 14: Transport information**

#### 14.1 UN number or ID number

Not regulated as a dangerous good

#### 14.2 UN proper shipping name

Not regulated as a dangerous good



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## 14.3 Transport hazard class(es)

Not regulated as a dangerous good

#### 14.4 Packing group

Not regulated as a dangerous good

#### 14.5 Environmental hazards

Not regulated as a dangerous good

#### 14.6 Special precautions for user

Not applicable

## 14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

#### **SECTION 15: Regulatory information**

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) Conditions of restriction for the following entries should be considered: Number on list 3

Diphenylmethanediisocyanate, polymeric (Number on list 74) 4,4'-Methylenediphenyl diisocyanate, oligomers dibutyltin dilaurate (Number on list

30)

REACH - Candidate List of Substances of Very High

Concern for Authorisation (Article 59).

Not applicable

Regulation (EC) No 1005/2009 on substances that de-

plete the ozone layer

Not applicable

Regulation (EU) 2019/1021 on persistent organic pollu-

tants (recast)

Not applicable

RoHS: 2011/65/EU, Restriction of Hazardous Substanc-

es

Not applicable

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import

of dangerous chemicals

Not applicable

REACH - List of substances subject to authorisation

(Annex XIV)

Not applicable

Seveso III: Directive 2012/18/EU of the Europe- Not applicable

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an Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

Volatile organic compounds

Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)

Not applicable

#### Other regulations:

Take note of Directive 92/85/EEC regarding maternity protection or stricter national regulations, where applicable.

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

#### The components of this product are reported in the following inventories:

**TSCA** : All substances listed as active on the TSCA inventory

AIIC On the inventory, or in compliance with the inventory

**KECI** On the inventory, or in compliance with the inventory

**PICCS** On the inventory, or in compliance with the inventory

**IECSC** On the inventory, or in compliance with the inventory

On the inventory, or in compliance with the inventory REACH

#### 15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this mixture.

#### **SECTION 16: Other information**

## Full text of other abbreviations

IE OEL Ireland. List of Chemical Agents and Occupational Exposure

Limit Values - Schedule 1

IE OEL / OELV - 8 hrs (TWA) Occupational exposure limit value (8-hour reference period)

IE OEL / OELV - 15 min Occupational exposure limit value (15-minute reference peri-

(STEL)

od)



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ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways: ADR - Agreement concerning the International Carriage of Dangerous Goods by Road: AIIC - Australian Inventory of Industrial Chemicals: ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA -European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods: IMO - International Maritime Organization: ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals: OECD - Organization for Economic Co-operation and Development: OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI -Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

#### **Further information**

Other information : This safety datasheet only contains information relating to

safety and does not replace any product information or prod-

uct specification.

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#### Classification of the mixture: Classification procedure:

Acute Tox. 4	H332	Calculation method
Skin Irrit. 2	H315	Calculation method
Eye Irrit. 2	H319	Calculation method
Resp. Sens. 1	H334	Calculation method
Skin Sens. 1	H317	Calculation method
Carc. 2	H351	Calculation method

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Version 1.1	Revision Date: 03.12.2022	SDS Number: 100000020120	Date of last issue: 19.05.2022 Date of first issue: 19.05.2022	
STOT	SE 3	H335	Calculation method	
STOT	RE 2	H373	Calculation method	

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