according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

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A033-K21 hebro®HB-200-1

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

1.1 Product identifier

Trade name : A033-K21 hebro@HB-200-1

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

Use of the Substance/Mixture

1.3 Details of the supplier of the safety data sheet

Company : hebro chemie- ZN der Rockwood Specialties Group

GmbH

Rostocker Str. 40

41199 Mönchengladbach : Zentrale hebro chemie

: Cleaner for professional application in industry and trade

Contact person Telephone : +49 (0) 2166 6009-0 : +49 (0) 2166 6009-99 Telefax

Contact person product safety Abteilung Produktsicherheit Telephone : +49(0)2166 6009-311 E-mail address : msds.de@hebro-chemie.de

1.4 Emergency telephone number

: Giftinformationszentrum Erfurt:

+49 (0) 361 730 730

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

Additional Labelling

EUH210 Safety data sheet available on request.

EUH208 Contains Orange, sweet, ext.. May produce an allergic reaction.

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

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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.

Ecological information: This substance/mixture does not contain components considered to have endocrine disrupting properties for environment according to UK REACH Article 57(f).

Toxicological information: This substance/mixture does not contain components considered to have endocrine disrupting properties for human health according to UK REACH Article 57(f),

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Alkaline cleaner based on lye and silicates

Mixture of inorganic salts Surface active agents

Solvent

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
2-(2-Butoxyethoxy)ethanol; diethylene glycol monobutyl ether	112-34-5 203-961-6 603-096-00-8 01-2119475104-44	Eye Irrit. 2; H319	>= 2.5 - < 10
Tetrapotassium pyrophosphate	7320-34-5 230-785-7 01-2119489369-18	Eye Irrit. 2; H319	>= 1 - < 2.5
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts	68411-30-3 270-115-0 01-2119489428-22	Aquatic Chronic 3; H412 Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318	>= 1 - < 2.5
Orange, sweet, ext.	8028-48-6 232-433-8 01-2119493353-35	Flam. Liq. 3; H226 Skin Irrit. 2; H315 Skin Sens. 1; H317 Asp. Tox. 1; H304 Aquatic Chronic 2; H411	>= 0.1 - < 0.25

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : If symptoms persist, call a physician.

If inhaled : No special precautions required.

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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In case of skin contact After contact with skin, wash immediately with plenty of water.

Take off all contaminated clothing immediately.

In case of eye contact, remove contact lens and rinse imme-In case of eye contact

diately with plenty of water, also under the eyelids, for at least

15 minutes.

Seek medical treatment when symptoms develop due to con-

tact with eyes.

If swallowed Immediately give large quantities of water to drink.

Prevent vomiting if possible.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms No information available.

Risks May cause skin and eye irritation in susceptible persons.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Alcohol-resistant foam

Carbon dioxide (CO2)

Dry powder Water spray jet

Unsuitable extinguishing

media

High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-

fighting

Combustion may cause:

Hazardous combustion prod: Carbon oxides

ucts

5.3 Advice for firefighters

Special protective equipment:

for firefighters

Wear self-contained breathing apparatus for firefighting if nec-

essary.

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 : Handle in accordance with good industrial hygiene and safety

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

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practice.

6.2 Environmental precautions

Inform the relevant authorities if it enters sewers, aquatic envi-Environmental precautions

ronment or soil.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up Contain spillage, soak up with non-combustible absorbent

> material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local /

national regulations (see section 13).

Keep in suitable, closed containers for disposal.

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 Avoid contact with skin and eyes.

> Ensure adequate ventilation. Avoid formation of aerosol.

For personal protection see section 8.

fire and explosion

Advice on protection against : Normal measures for preventive fire protection.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

: Containers which are opened must be carefully resealed and kept upright to prevent leakage. Keep only in the original con-

tainer at temperature not exceeding 50°C.

Further information on stor-

age conditions

Keep away from heat. Protect from frost. Keep away from

food, drink and animal feedingstuffs.

Recommended storage tem- : 5 - 40 °C

perature

7.3 Specific end use(s)

Specific use(s) Cleaner for professional application in industry and trade

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
2-(2-	112-34-5	TWA	10 ppm	GB EH40

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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Butoxyeth- oxy)ethanol; dieth- ylene glycol mono- butyl ether		67.5 mg/m3	
	STEL	15 ppm 101.2 mg/m3	GB EH40

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006

Substance name	End Use	Exposure routes	Potential health effects	Value
2-(2- Butoxyethoxy)ethanol; diethylene glycol monobutyl ether	Workers	Inhalation	Long-term systemic effects	67.5 mg/m3
	Workers	Inhalation	Long-term local effects	67.5 mg/m3
	Workers	Inhalation	Acute local effects	101.2 mg/m3
	Workers	Skin contact	Long-term systemic effects	20 mg/kg bw/day
Tetrapotassium pyro- phosphate	Workers	Inhalation	Long-term systemic effects	2.79 mg/m3
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts	Workers	Inhalation	Long-term systemic effects	12 mg/m3
	Workers	Inhalation	Long-term local ef- fects	12 mg/m3
	Workers	Skin contact	Long-term systemic effects	170 mg/kg bw/day
Orange, sweet, ext.	Workers	Inhalation	Long-term systemic effects	31.1 mg/m3
	Workers	Skin contact	Long-term systemic effects	8.89 mg/kg bw/day
	Workers	Skin contact	Acute local effects	185.8 µg/cm2

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006

Substance name	Environmental Compartment	Value
2-(2-Butoxyethoxy)ethanol; di-	Fresh water	1 mg/l
ethylene glycol monobutyl ether		
	Marine water	0.4 mg/l
	Estuary sediment	4 mg/l
Tetrapotassium pyrophosphate	Fresh water	0.05 mg/l
	Marine water	0.005 mg/l
	Sewage treatment plant	50 mg/l
Benzenesulfonic acid, C10-13-	Fresh water	0.268 mg/l
alkyl derivs., sodium salts		
	Marine water	0.0268 mg/l
	Sewage treatment plant	3.43 mg/l
	Fresh water sediment	8.1 mg/kg
	Marine sediment	8.1 mg/kg
	Soil	35 mg/kg
Orange, sweet, ext.	Fresh water	0.005 mg/l
	Marine water	0.0005 mg/l
	Intermittent use/release	0.0058 mg/l
	Sewage treatment plant	2.1 mg/l
	Fresh water sediment	1.3 mg/kg

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Marine sediment	0.13 mg/kg
Soil	0.261 mg/kg
Oral	13.3 mg/kg

8.2 Exposure controls

Personal protective equipment

Eye/face protection : Face-shield

Safety glasses with side-shields conforming to EN166

Hand protection

Material : Protective gloves complying with EN 374.

Break through time : > 60 min Protective index : Class 3

Material : Nitrile rubber Glove thickness : 0.4 mm

Material : butyl-rubber Glove thickness : 0.5 mm

Remarks : The choice of an appropriate glove does not only depend on

its material but also on other quality features and is different from one producer to the other. The exact break through time can be obtained from the protective glove producer and this

has to be observed.

Skin and body protection : Chemical resistant protective clothing according to DIN EN

13034 (Type 6)

Work uniform or laboratory coat.

Respiratory protection : If product forms vapours or aerosols wear breathing protec-

tion.

Filter type : ABEK-filter

Protective measures : When using do not eat, drink or smoke.

Wash hands before breaks and at the end of workday.

Follow the skin protection plan.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state : aqueous solution

Colour : yellow

Odour : characteristic

Melting point/freezing point : not determined

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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Boiling point/boiling range

Upper explosion limit / Upper : not determined

flammability limit

Lower explosion limit / Lower : not determined

flammability limit

Auto-ignition temperature not determined

рΗ ca. 9 (20 °C)

Concentration: 10 g/l

Viscosity

Viscosity, kinematic similar to water

Solubility(ies)

Water solubility : 1,000 g/l completely soluble

Partition coefficient: n-

octanol/water

Not applicable

Vapour pressure not determined

Density 1.02 g/cm3 (20 °C)

Relative vapour density : not determined

9.2 Other information

Explosives no explosion risk

Metal corrosion rate : Not corrosive to metals

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

The product is chemically stable.

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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10.3 Possibility of hazardous reactions

Hazardous reactions : No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

Conditions to avoid : No decomposition if used as directed.

10.5 Incompatible materials

Materials to avoid : None known.

10.6 Hazardous decomposition products

Carbon dioxide (CO2) Carbon monoxide

Smoke

Hazardous decomposition

products

: No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

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

Acute toxicity

Not classified due to lack of data.

Product:

Acute oral toxicity : Acute toxicity estimate: > 2,000 mg/kg

Method: Calculation method

Components:

2-(2-Butoxyethoxy)ethanol; diethylene glycol monobutyl ether:

Acute oral toxicity : LD50 (Rat): 3,384 mg/kg

Acute dermal toxicity : LD50 (Rabbit): 2,700 mg/kg

Tetrapotassium pyrophosphate:

Acute oral toxicity : LD50 (Rat, male): 2,440 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 1.1 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg

Method: OECD Test Guideline 402

Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts:

Acute oral toxicity : LD50 (Rat): 1,080 mg/kg

Orange, sweet, ext.:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

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Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg

Skin corrosion/irritation

Based on available data, the classification criteria are not met.

Product:

Result : No skin irritation

Serious eye damage/eye irritation

Based on available data, the classification criteria are not met.

Product:

Result : No eye irritation

Respiratory or skin sensitisation

Skin sensitisation

Not classified due to lack of data.

Respiratory sensitisation

Not classified due to lack of data.

Germ cell mutagenicity

Not classified due to lack of data.

Components:

Orange, sweet, ext.:

Genotoxicity in vitro : Remarks: In vitro tests did not show mutagenic effects

Carcinogenicity

Based on available data, the classification criteria are not met.

Product:

Carcinogenicity - Assess-

: Not classifiable as a human carcinogen.

ment

Reproductive toxicity

Not classified due to lack of data.

STOT - single exposure

Not classified due to lack of data.

STOT - repeated exposure

Not classified due to lack of data.

Aspiration toxicity

Not classified due to lack of data.

11.2 Information on other hazards

Endocrine disrupting properties

Product:

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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

ered to have endocrine disrupting properties for human health

according to UK REACH Article 57(f),

Further information

Product:

Remarks : Health injuries are not known or expected under normal use.

SECTION 12: Ecological information

12.1 Toxicity

Components:

2-(2-Butoxyethoxy)ethanol; diethylene glycol monobutyl ether:

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 2,750 mg/l

Exposure time: 48 h Method: DIN 38412

LC50 (Lepomis macrochirus (Bluegill sunfish)): 1,300 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia (water flea)): 2,850 mg/l

Exposure time: 48 h

Toxicity to algae/aquatic

plants

NOEC (Desmodesmus subspicatus (green algae)): > 100 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 201

Tetrapotassium pyrophosphate:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l

Exposure time: 96 h
Test Type: semi-static test

Method: OECD Test Guideline 203

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 100 mg/l

Exposure time: 48 h Test Type: static test

Method: OECD Test Guideline 202

Toxicity to algae/aquatic

plants

(Desmodesmus subspicatus): > 100 mg/l

Exposure time: 72 h

Test Type: Growth inhibition Method: OECD Test Guideline 201

Toxicity to microorganisms : EC50 (Bacteria): > 1,000 mg/l

Exposure time: 3 h

Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts:

Toxicity to fish : LC50 (Fish): 1.67 mg/l

Exposure time: 96 h

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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NOEC (Fish): 0.25 mg/l Exposure time: 90 d

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia (water flea)): 2.9 mg/l

Exposure time: 48 h

NOEC (Daphnia (water flea)): 1.18 mg/l

Exposure time: 21 d

Toxicity to algae/aquatic

plants

EC50 (Algae): 47.3 mg/l

Exposure time: 72 h

NOEC (Algae): 3.1 mg/l Exposure time: 15 d

Orange, sweet, ext.:

Toxicity to fish : LC50 (Pimephales promelas (Fathead minnow)): 0.7 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 0.67 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

Toxicity to algae/aquatic

plants

: ErC50 (Desmodesmus subspicatus): 150 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

12.2 Persistence and degradability

Product:

Biodegradability : Remarks: No data available

Components:

Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts:

Biodegradability : Biodegradation: > 60 %

Exposure time: 28 d

Method: OECD Test Guideline 301B Remarks: rapidly biodegradable

The surfactant(s) contained in this mixture complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.907/2006 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.

12.3 Bioaccumulative potential

Product:

Bioaccumulation : Remarks: No data available

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

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12.4 Mobility in soil

Product:

Mobility Remarks: No data available

12.5 Results of PBT and vPvB assessment

Product:

This substance/mixture contains no components considered Assessment

> 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 This substance/mixture does not contain components consid-

ered to have endocrine disrupting properties for environment

according to UK REACH Article 57(f).

12.7 Other adverse effects

Product:

mation

Additional ecological infor- : Do not flush into surface water or sanitary sewer system.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product Do not let product enter drains.

Do not dispose of with domestic refuse.

Waste codes should be assigned by the user, preferably in

discussion with the waste disposal authorities.

Contaminated packaging If recycling is not practicable, dispose of in compliance with

local regulations.

Since emptied containers retain product residues (vapour and/or liquid) follow all MSDS/label warnings after container is

emptied.

Waste Code Waste codes should be assigned by the user, preferably in

discussion with the waste disposal authorities.

SECTION 14: Transport information

14.1 UN number or ID number

ADR Not regulated as a dangerous good RID Not regulated as a dangerous good **IMDG** Not regulated as a dangerous good

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

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IATA_P : Not regulated as a dangerous good

14.2 UN proper shipping name

ADR : Not regulated as a dangerous good

RID : Not regulated as a dangerous good

IMDG : Not regulated as a dangerous good

IATA_P : Not regulated as a dangerous good

14.3 Transport hazard class(es)

ADR : Not regulated as a dangerous good

RID : Not regulated as a dangerous good

IMDG : Not regulated as a dangerous good

IATA_P : Not regulated as a dangerous good

14.4 Packing group

ADR : Not regulated as a dangerous good
RID : Not regulated as a dangerous good
IMDG : Not regulated as a dangerous good
IATA (Cargo) : Not regulated as a dangerous good
IATA_P (Passenger) : 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

Relevant EU provisions transposed through retained EU law

UK REACH List of restrictions (Annex 17) : Conditions of restriction for the fol-

lowing entries should be considered:

Number on list 55: 2-(2-

Butoxyethoxy)ethanol; diethylene

glycol monobutyl ether

UK REACH Candidate list of substances of very high

concern (SVHC) for Authorisation

Not applicable

The Persistent Organic Pollutants Regulations (retained

Regulation (EU) 2019/1021 as amended for Great Brit-

ain)

Not applicable

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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Regulation (EC) on substances that deplete the ozone

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: Not applicable

UK REACH List of substances subject to authorisation

(Annex XIV)

Not applicable

GB Export and import of hazardous chemicals - Prior

Informed Consent (PIC) Regulation

: Not applicable

15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance when it is used in the specified applications.

SECTION 16: Other information

Full text of H-Statements

H226 : Flammable liquid and vapour.

H302 : Harmful if swallowed.

H304 : May be fatal if swallowed and enters airways.

H315 : Causes skin irritation.

H317 : May cause an allergic skin reaction.
H318 : Causes serious eye damage.
H319 : Causes serious eye irritation.

H411 : Toxic to aquatic life with long lasting effects.
H412 : Harmful to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox. : Acute toxicity

Aquatic Chronic : Long-term (chronic) aquatic hazard

Asp. Tox. : Aspiration hazard
Eye Dam. : Serious eye damage
Eye Irrit. : Eye irritation

Flam. Liq. : Flammable liquids
Skin Irrit. : Skin irritation
Skin Sens. : Skin sensitisation

GB EH40 : UK. EH40 WEL - Workplace Exposure Limits

GB EH40 / TWA : Long-term exposure limit (8-hour TWA reference period)
GB EH40 / STEL : Short-term exposure limit (15-minute reference period)

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;

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878





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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

The information provided is based on our current knowledge and experience and apply to the product as delivered. Regarding the product properties, these are not guaranteed. The delivery of this safety datasheet does not free the recipient of the product from his own responsibility to follow the relevant rules and regulations concerning this product.

The product is classified and labelled in accordance with EC directives or respective national laws.

Regional or national implementations of GHS may not implement all hazard classes and categories.

Guideline on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS) : no component is listed

No PFAS are consciously added to the product concerning the restriction proposal for inclusion to REACh (Annex XVII).

GB / EN