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



3-Chlorophenol ≥98 %, for synthesis

article number: **1C32** date of compilation: 2020-05-22 Version: **3.0 en** Revision: 2024-03-03

Replaces version of: 2022-05-06

Version: (2)

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

1.1 Product identifier

Identification of the substance 3-Chlorophenol ≥98 %, for synthesis

Article number 1C32

Registration number (REACH)

It is not required to list the identified uses be-

cause the substance is not subject to registration

according to REACH (< 1 t/a).

Index number in CLP Annex VI 604-008-00-0 EC number 203-582-6 CAS number 108-43-0

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

Relevant identified uses: Laboratory and analytical use

Laboratory chemical

Uses advised against: Do not use for private purposes (household).

Food, drink and animal feedingstuffs.

1.3 Details of the supplier of the safety data sheet

Carl Roth GmbH + Co. KG Schoemperlenstr. 3-5 D-76185 Karlsruhe Germany

Telephone:+49 (0) 721 - 56 06 0 **Telefax:** +49 (0) 721 - 56 06 149 **e-mail:** sicherheit@carlroth.de **Website:** www.carlroth.de

Competent person responsible for the safety data Department Health, Safety and Environment

sheet:

e-mail (competent person): sicherheit@carlroth.de

1.4 Emergency telephone number

| Name | Street | Postal code/city | Telephone | Website |
|---|---------------|------------------|-----------------|-----------------------------|
| National Poisons Information Centre Beaumont Hospital | Beaumont Road | Dublin 9 | +353 1 809 2166 | https:// www.poisons.ie/ |

Ireland (en) Page 1 / 15

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



3-Chlorophenol ≥98 %, for synthesis

article number: 1C32

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

| Section | Hazard class | Cat- egory | Hazard class and category | Hazard statement |
|---------|---|---------------|---------------------------|---------------------|
| 3.10 | Acute toxicity (oral) | 4 | Acute Tox. 4 | H302 |
| 3.1D | Acute toxicity (dermal) | 4 | Acute Tox. 4 | H312 |
| 3.1I | Acute toxicity (inhal.) | 4 | Acute Tox. 4 | H332 |
| 4.1C | Hazardous to the aquatic environment - chronic hazard | 2 | Aquatic Chronic 2 | H411 |

For full text of abbreviations: see SECTION 16

The most important adverse physicochemical, human health and environmental effects

Spillage and fire water can cause pollution of watercourses.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP)

Signal word Warning

Pictograms

GHS07, GHS09





Hazard statements

H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled Toxic to aquatic life with long lasting effects

Precautionary statements

Precautionary statements - prevention

P273 Avoid release to the environment

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

Precautionary statements - response

P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell

P302+P352 IF ON SKIN: Wash with plenty of soap and water

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing

Labelling of packages where the contents do not exceed 125 ml

Signal word: Warning

Symbol(s)





Ireland (en) Page 2 / 15

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



3-Chlorophenol ≥98 %, for synthesis

article number: 1C32

2.3 Other hazards

Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB.

Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of \geq 0,1%.

SECTION 3: Composition/information on ingredients

3.1 Substances

Name of substance 3-Chlorophenol

Molecular formula C_6H_5CIO Molar mass $128,6 \, ^g/_{mol}$

CAS No 108-43-0 EC No 203-582-6 Index No 604-008-00-0

Substance, Specific Conc. Limits, M-factors, ATE

| Specific Conc. Limits | M-Factors | ATE | Exposure route |
|-----------------------|--------------|--|----------------|
| - | - | 500 ^{mg} / _{kg} 1.100 ^{mg} / _{kg} | oral dermal |

SECTION 4: First aid measures

4.1 Description of first aid measures



General notes

Take off contaminated clothing.

Following inhalation

Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.

Following skin contact

Rinse skin with water/shower. In all cases of doubt, or when symptoms persist, seek medical advice.

Following eye contact

Rinse cautiously with water for several minutes. In all cases of doubt, or when symptoms persist, seek medical advice.

Following ingestion

Rinse mouth with water (only if the person is conscious). Call a doctor.

4.2 Most important symptoms and effects, both acute and delayed

Irritant effects, Cough, Dyspnoea, Headache, Vertigo, Vomiting

Ireland (en) Page 3 / 15

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



3-Chlorophenol ≥98 %, for synthesis

article number: 1C32

4.3 Indication of any immediate medical attention and special treatment needed

none

SECTION 5: Firefighting measures

5.1 Extinguishing media



Suitable extinguishing media

co-ordinate firefighting measures to the fire surroundings! water, foam, alcohol resistant foam, dry extinguishing powder, ABC-powder

Unsuitable extinguishing media

water jet

5.2 Special hazards arising from the substance or mixture

Combustible.

Hazardous combustion products

In case of fire may be liberated: Carbon monoxide (CO), Carbon dioxide (CO₂), Hydrogen chloride (HCl), Phosgene, Hydrogen halides (HX)

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Do not allow firefighting water to enter drains or water courses. Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures



For non-emergency personnel

Avoid contact with skin, eyes and clothes. Do not breathe dust.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. If substance has entered a water course or sewer, inform the responsible authority.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains. Take up mechanically.

Advice on how to clean up a spill

Take up mechanically. Control of dust.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

Ireland (en) Page 4 / 15

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



3-Chlorophenol ≥98 %, for synthesis

article number: 1C32

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Provision of sufficient ventilation. Avoid dust formation. Avoid: Aerosol or mist formation.

Measures to protect the environment

Avoid release to the environment.

Advice on general occupational hygiene

Wash hands before breaks and after work. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

Store in a dry place.

Incompatible substances or mixtures

Observe hints for combined storage.

Consideration of other advice:

Ventilation requirements

Keep any substance that emits harmful vapours or gases in a place that allows these to be permanently extracted.

Specific designs for storage rooms or vessels

Recommended storage temperature: 15 - 25 °C

7.3 Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

National limit values

Occupational exposure limit values (Workplace Exposure Limits)

This information is not available.

8.2 Exposure controls

Individual protection measures (personal protective equipment)

Eye/face protection





Use safety goggle with side protection.

Skin protection





Ireland (en) Page 5 / 15

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



3-Chlorophenol ≥98 %, for synthesis

article number: 1C32

hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. The times are approximate values from measurements at 22 °C and permanent contact. Increased temperatures due to heated substances, body heat etc. and a reduction of the effective layer thickness by stretching can lead to a considerable reduction of the breakthrough time. If in doubt, contact manufacturer. At an approx. 1.5 times larger / smaller layer thickness, the respective breakthrough time is doubled / halved. The data apply only to the pure substance. When transferred to substance mixtures, they may only be considered as a guide.

type of material

Butyl caoutchouc (butyl rubber)

material thickness

>0,5 mm

breakthrough times of the glove material

>480 minutes (permeation: level 6)

other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended.

Respiratory protection





Respiratory protection necessary at: Dust formation. Particulate filter device (EN 143). Type: A-P2 (combined filters against particles and organic gases and vapours, colour code: Brown/White).

Environmental exposure controls

Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state solid
Colour yellow

Odour like: - Phenol Melting point/freezing point 31 – 34 °C

Boiling point or initial boiling point and boiling 214 °C

range

range

Flammability this material is combustible, but will not ignite

readily

Lower and upper explosion limit not determined Flash point >120 °C (c.c.)

Auto-ignition temperature >600 °C

Decomposition temperature >350 °C

pH (value) 3,5 (in aqueous solution: 27,7 $^{9}/_{l}$, 20 °C)

Ireland (en) Page 6 / 15

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



3-Chlorophenol ≥98 %, for synthesis

article number: 1C32

Kinematic viscosity not relevant

Solubility(ies)

Water solubility 27,7 ^g/_l at 20 °C

Partition coefficient

Partition coefficient n-octanol/water (log value): 2,5

Vapour pressure 1 hPa at 44 °C

Density and/or relative density

Density 1,25 g/_{cm³} at 20 °C

Relative vapour density Information on this property is not available.

Particle characteristics No data available.

Other safety parameters

Oxidising properties none

9.2 Other information

Information with regard to physical hazard classes acc. to GHS (physical hazards): not relevant

Other safety characteristics: There is no additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity

The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.

10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

10.3 Possibility of hazardous reactions

Violent reaction with: strong oxidiser,

Dangerous/dangerous reactions with: Carboxylic acid anhydride, Acetic anhydride, Reducing agents, Strong alkali, Acid chlorides, inorganic

10.4 Conditions to avoid

Keep away from heat. Decompostion takes place from temperatures above: >350 °C.

10.5 Incompatible materials

aluminium, copper, different plastics

10.6 Hazardous decomposition products

Hazardous combustion products: see section 5.

Ireland (en) Page 7 / 15

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



3-Chlorophenol ≥98 %, for synthesis

article number: 1C32

SECTION 11: Toxicological information

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

Classification according to GHS (1272/2008/EC, CLP)

Acute toxicity

Harmful if swallowed. Harmful in contact with skin. Harmful if inhaled.

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

Symptoms related to the physical, chemical and toxicological characteristics

If swallowed

vomiting, nausea

• If in eyes

causes slight to moderate irritation

• If inhaled

cough, Dyspnoea, irritant effects

• If on skin

causes slight to moderate irritation

Other information

Other adverse effects: Cardiovascular system, Liver and kidney damage, Headache, Vertigo

11.2 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of \geq 0,1%.

11.3 Information on other hazards

There is no additional information.

Ireland (en) Page 8 / 15

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



3-Chlorophenol ≥98 %, for synthesis

article number: 1C32

SECTION 12: Ecological information

12.1 Toxicity

Toxic to aquatic life with long lasting effects.

12.2 Persistence and degradability

Theoretical Oxygen Demand: 1,618 mg/mg Theoretical Carbon Dioxide: 2,054 mg/mg

Biodegradation

Not readily biodegradable.

12.3 Bioaccumulative potential

Does not significantly accumulate in organisms.

| n-octanol/water (log KOW) | 2,5 |
|---------------------------|-----|
|---------------------------|-----|

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

Data are not available.

12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of \geq 0,1%.

Other adverse effects 12.7

Data are not available.

SECTION 13: Disposal considerations

Waste treatment methods



This material and its container must be disposed of as hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations.

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packagings

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used. Handle contaminated packages in the same way as the substance itself. Completely emptied packages can be recycled.

13.2 Relevant provisions relating to waste

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

Properties of waste which render it hazardous

HP 6 acute toxicity

HP 14 ecotoxic

Ireland (en) Page 9 / 15

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



3-Chlorophenol ≥98 %, for synthesis

article number: 1C32

13.3 Remarks

Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the relevant national or regional provisions. Non-contaminated packages may be recycled.

SECTION 14: Transport information

14.1 UN number or ID number

ADRRID UN 2020 IMDG-Code UN 2020 UN 2020 UN 2020

14.2 UN proper shipping name

ADRRID CHLOROPHENOLS, SOLID IMDG-Code CHLOROPHENOLS, SOLID ICAO-TI Chlorophenols, solid

14.3 Transport hazard class(es)

ADRRID 6.1 IMDG-Code 6.1 ICAO-TI 6.1

14.4 Packing group

ADRRID III
IMDG-Code III
ICAO-TI III

14.5 Environmental hazards hazardous to the aquatic environment

14.6 Special precautions for user

Provisions for dangerous goods (ADR) should be complied within the premises.

14.7 Maritime transport in bulk according to IMO instruments

The cargo is not intended to be carried in bulk.

14.8 Information for each of the UN Model Regulations

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR)Additional information

Proper shipping name CHLOROPHENOLS, SOLID

Particulars in the transport document UN2020, CHLOROPHENOLS, SOLID, 6.1, III, (E),

environmentally hazardous

Classification code T2

Danger label(s) 6.1, "Fish and tree"



Environmental hazards yes (hazardous to the aquatic environment)

Ireland (en) Page 10 / 15

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

3-Chlorophenol ≥98 %, for synthesis

article number: 1C32

Special provisions (SP) 205, 802(ADN)

Excepted quantities (EQ) E1
Limited quantities (LQ) 5 kg
Transport category (TC) 2
Tunnel restriction code (TRC) E

Hazard identification No 60

Regulations concerning the International Carriage of Dangerous Goods by Rail (RID)Additional

information

Classification code T2

Danger label(s) 6.1, "Fish and tree"

Environmental hazards Yes

Hazardous to water

Special provisions (SP) 205, 802(ADN)

Excepted quantities (EQ) E1
Limited quantities (LQ) 5 kg
Transport category (TC) 2
Hazard identification No 60

International Maritime Dangerous Goods Code (IMDG) - Additional information

Proper shipping name CHLOROPHENOLS, SOLID

Particulars in the shipper's declaration UN2020, CHLOROPHENOLS, SOLID, 6.1, III, MAR-

INE POLLUTANT

Marine pollutant yes (hazardous to the aquatic environment)

Danger label(s) 6.1, "Fish and tree"

Special provisions (SP) 205

Excepted quantities (EQ) E1

Limited quantities (LQ) 5 kg

EmS F-A, S-A

Stowage category A

International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

Proper shipping name Chlorophenols, solid

Particulars in the shipper's declaration UN2020, Chlorophenols, solid, 6.1, III

Environmental hazards yes (hazardous to the aquatic environment)

Danger label(s) 6.1

Ireland (en) Page 11 / 15

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



3-Chlorophenol ≥98 %, for synthesis

article number: 1C32



Special provisions (SP) A25
Excepted quantities (EQ) E1
Limited quantities (LQ) 10 kg

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Relevant provisions of the European Union (EU)

Restrictions according to REACH, Annex XVII

not listed

Not listed.

List of substances subject to authorisation (REACH, Annex XIV)/SVHC-candidate list

Seveso Directive

| 2012/ | 2012/18/EU (Seveso III) | | | |
|-------|--|---|-------|--|
| No | Dangerous substance/hazard categories | Qualifying quantity (tonnes) for the application of lower and upper-tier requirements | Notes | |
| E2 | environmental hazards (hazardous to the aquatic environment, cat. 2) | 200 500 | 57) | |

Notation

57) Hazardous to the Aquatic Environment in category Chronic 2

Deco-Paint Directive

| VOC content | 100 % |
|-------------|-----------------------------------|
| VOC content | 1.250 ^g / _l |

Industrial Emissions Directive (IED)

| VOC content | 100 % |
|-------------|-----------------------------------|
| VOC content | 1.250 ^g / _l |

Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

not listed

Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

not listed

Ireland (en) Page 12 / 15

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



3-Chlorophenol ≥98 %, for synthesis

article number: 1C32

Water Framework Directive (WFD)

List of pollutants (WFD)

| Name of substance | Name acc. to inventory | CAS No | Listed in | Remarks |
|-------------------|--|--------|-----------|---------|
| 3-Chlorophenol | Organohalogen compounds and substances which may form such compounds in the aquatic envir- onment | | a) | |

Legend

Indicative list of the main pollutants

Regulation on the marketing and use of explosives precursors

not listed

Regulation on drug precursors

not listed

Regulation on substances that deplete the ozone layer (ODS)

not listed

Regulation concerning the export and import of hazardous chemicals (PIC)

Regulation on persistent organic pollutants (POP)

not listed

Other information

Directive 94/33/EC on the protection of young people at work. Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

National inventories

| Country | Inventory | Status |
|---------|-----------|------------------------------|
| AU | AIIC | substance is listed |
| CA | DSL | substance is listed |
| CN | IECSC | substance is listed |
| EU | ECSI | substance is listed |
| JP | CSCL-ENCS | substance is listed |
| KR | KECI | substance is listed |
| MX | INSQ | substance is listed |
| NZ | NZIoC | substance is listed |
| PH | PICCS | substance is listed |
| TW | TCSI | substance is listed |
| US | TSCA | substance is listed (ACTIVE) |
| VN | NCI | substance is listed |

Legend

Australian Inventory of Industrial Chemicals List of Existing and New Chemical Substances (CSCL-ENCS)

DSL ECSI

Domestic Substances List (DSL)
EC Substance Inventory (EINECS, ELINCS, NLP)
Inventory of Existing Chemical Substances Produced or Imported in China **IECSC**

Ireland (en) Page 13 / 15

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



3-Chlorophenol ≥98 %, for synthesis

article number: 1C32

Legend

National Inventory of Chemical Substances Korea Existing Chemicals Inventory National Chemical Inventory New Zealand Inventory of Chemicals Philippine Inventory of Chemicals and Chemical Substances (PICCS) Taiwan Chemical Substance Inventory Toxic Substance Control Act INSQ KECI

NZIoC

PICCS TCSI TSCA

15.2 Chemical safety assessment

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

SECTION 16: Other information

Indication of changes (revised safety data sheet)

| Section | Former entry (text/value) | Actual entry (text/value) | Safety- relev- ant |
|---------|--|---|--------------------------|
| 2.3 | | Endocrine disrupting properties: Does not contain an endocrine disruptor (ED) at a concentration of ≥ 0,1%. | yes |
| 15.1 | VOC content: 100 % 1.250 ^g / _l | VOC content: 100 % | yes |
| 15.1 | | VOC content: 1.250 ^g / _l | yes |
| 15.1 | | National inventories: change in the listing (table) | yes |

Abbreviations and acronyms

| Abbr. | Descriptions of used abbreviations |
|----------|---|
| ADR | Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road) |
| ATE | Acute Toxicity Estimate |
| CAS | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances) |
| CLP | Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures |
| DGR | Dangerous Goods Regulations (see IATA/DGR) |
| EC No | The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union) |
| ED | Endocrine disruptor |
| EINECS | European Inventory of Existing Commercial Chemical Substances |
| ELINCS | European List of Notified Chemical Substances |
| EmS | Emergency Schedule |
| GHS | "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations |
| IATA | International Air Transport Association |
| IATA/DGR | Dangerous Goods Regulations (DGR) for the air transport (IATA) |
| ICAO | International Civil Aviation Organization |

Ireland (en) Page 14 / 15

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



3-Chlorophenol ≥98 %, for synthesis

article number: 1C32

| Abbr. | Descriptions of used abbreviations |
|-----------|--|
| ICAO-TI | Technical instructions for the safe transport of dangerous goods by air |
| IMDG | International Maritime Dangerous Goods Code |
| IMDG-Code | International Maritime Dangerous Goods Code |
| index No | The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008 |
| NLP | No-Longer Polymer |
| PBT | Persistent, Bioaccumulative and Toxic |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals |
| RID | Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regula- tions concerning the International carriage of Dangerous goods by Rail) |
| SVHC | Substance of Very High Concern |
| VOC | Volatile Organic Compounds |
| vPvB | Very Persistent and very Bioaccumulative |

Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU.

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). Regulations concerning the International Carriage of Dangerous Goods by Rail (RID). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

List of relevant phrases (code and full text as stated in section 2 and 3)

| Code | Text |
|------|--|
| H302 | Harmful if swallowed. |
| H312 | Harmful in contact with skin. |
| H332 | Harmful if inhaled. |
| H411 | Toxic to aquatic life with long lasting effects. |

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

Ireland (en) Page 15 / 15