

SAFETY DATA SHEET

according to Regulation (EC) N° 1907/2006

EnzyClear 2

SECTION 1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Sales reference: EnzyClear 2 Detergent

Product code: 413031

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

EnzyClear 2 is a tri-enzymatic detergent specially used for the EasySpiral equipment cleaning.

1.3. Details of the supplier of the safety data sheet

INTERSCIENCE SAS

30, chemin du Bois des Arpents - 78860 Saint-Nom-la-Bretèche - FRANCE

Tel: +33 01 34 62 62 61

info@interscience.com

www.interscience.com

1.4. Emergency telephone numbers

For European countries, please refer to ECHA website update:

<https://echa.europa.eu/fr/support/helpdesks/>

<https://poisoncentres.echa.europa.eu/fr/appointed-bodies>

https://echa.europa.eu/documents/10162/2322249/emergency_phone_numbers_en.pdf/d911af43-4bcf-9371-a59d-a20736d91e7d?t=1628515444598

European Emergency Tel: 112

For the rest of the world, refer to the WHO directory of poison information centres:

https://apps.who.int/poisoncentres/PoisonCentres_201902.pdf

List of Emergency numbers worldwide.

Country	Phone number	Website
Australia	+61 2 9845 3969 / 131126	
Austria	+43 1 406 43 43	https://goeg.at/Vergiftungsinformation
Belgium	+32 70 245 245	https://www.poisoncentre.be/
Bulgaria	+359 2 9154 233	https://www.moew.government.bg/bg/prevantivna-dejnost/himichni-vestestva/klasifikaciya-clp/nacionalen-centur-potoksikologiya/
Canada	1 800 268 9017 / 911	https://infopoison.ca/fr/
China	+86 10 831 32 045 / 120	
Croatia	+3851 2348 342	https://www.imi.hr/hr/jedinica/centar-za-kontrolu-otrovanja/
Cyprus	1401	http://www.mlsi.gov.cy/mlsi/dli/dliup.nsf/All/44E02FF962E75D0DC2257DDA00288E83?OpenDocument
Czech Republic	+420 224 919 293 / +420 224 915 402	<a href="https://www.cenia.cz/odborna-podpora/reach/bezpecnostni-listy/<">https://www.cenia.cz/odborna-podpora/reach/bezpecnostni-listy/<
Denmark	+45 8212 1212	https://www.bispebjerghospital.dk/giftlinjen/Sider/default.aspx
Estonia	16662	https://www.terviseamet.ee/en/chemical-and-product-safety/data-for-safety-data-sheet
Finland	800 147 111 / 09 471 977	https://www.hus.fi/en/medical-care/medical-services/Poison%20Information%20Centre/Pages/default.aspx
France	01 45 42 59 59	https://reach-info.ineris.fr/Numero_orfila
Germany	+49 30 3068 6711 / 112	https://www.reach-clp-biozid-helpdesk.de/DE/REACH/Sicherheitsdatenblatt/Sicherheitsdatenblatt-EN/Emergency-Telephone-number.html
Greece	+30 21 07 79 37 77	https://echa.europa.eu/documents/10162/23019181/poison_info_centre_en.pdf/58b0f281-a6f8-4362-a0b9-faad57c7fcff

Country	Phone number	Website
Hungary	+36 80 201 199	https://www.nnk.gov.hu/index.php/kemiai-biztonsagi-es-kompetens-hatosagi-fo/egeszsegugyi-toxikologiai-tajekoztato-szolgalat
Iceland	+354 543 22 22 / +354 543 1000 / 112	http://www.landspitali.is/?PageID=14556
India	+91 112 659 36 77 / 112	https://www.secourisme.net/spip.php?breve443
Ireland	+353 1 809 2166 / 01 809 2166 (8am - 10pm) / 01 809 2566 (24/7)	https://www.poisons.ie/
Israel	+972 485 42 725 / 04-7771900 (24/7) / 101	https://www.rambam.org.il/en/departmentsandclinics/laboratories-division/clinical-pharmacology-and-toxicology/national-center-for-the-treatment-of-poisoning/
Italy	+39 06 301 54 492 / +39 06 305 4343 / +39 06 499 78 000 / 118	https://preparatipericolosi.iss.it/cav.aspx
Japan	+81 72 727 2499 / +81 29 852 9999 / 119	https://mediv8.com/poisons-information/japan-poison-information-center-head-office/
Latvia	+371 670 42473	https://www.meteo.lv/en/lapas/environment/chemical-substances-/reach/reach_en?&id=1483&nid=410
Lithuania	+370 85 236 2052	http://www.apsinuodijau.lt/
Luxembourg	+352 8002 5500	https://www.centreantipoisons.be/entreprises/english/how-declare/declarations-grand-duchy-Luxembourg
Malta	+356 234 41 111	https://deputyprimeminister.gov.mt/en/Pages/Contact-Us.aspx
Norway	+47 22 59 13 00	https://helsenorge.no/Giftinformasjon
Poland	+48 (12) 411 99 99	
Portugal	+351 800 250 250	https://www.inem.pt/category/servicos/centro-de-informacao-antivenenos/
Romania	+40 213 183 606	
Russia	+7 495 628 1687 / 112 / 103	https://www.petitfute.com/v51044-moscou/c1172-pense-fute-services/c1136-sante/c876-urgence/
Saudi Arabia	800 442 628 1687 / 937	

Country	Phone number	Website
Slovakia	+421 2 5477 4166	http://www.ntic.sk/ntic_en.php?adr=safetydata
Slovenia	+386 1 522 1293 / +386 1 434 7645 / 112	
South Africa	+27 086 155 5777 / +27 824 910 160 / 999	
South Korea	+82 (0)42 605 7030 / +82 (0)43 830 4000 / (+82-)119	https://nics.me.go.kr/ https://nics.me.go.kr/eng/main.do
Spain	+34 91 562 04 20	https://www.miteco.gob.es/es/calidad-y-evaluacion-ambiental/temas/productos-quimicos/portal-reach-clp/novedades/detalle_novedades.aspx?id=tcm:30-193752-16
Sweden	+46 (0)10 456 6700 / +46 (0)10 456 6750 / 112	
Switzerland	+41 44 251 51 51 / 145 (24/24)	https://www.vaudfamille.ch/N241017/tox-info-suisse-urgence-145-24h24h.html
Thailand	+66 (0)220 11084-6 / +66 2 419 9912 / 191 / 1669	https://ogocare.com/1669-and-191-emergency-numbers-to-call-in-thailand/
The Netherlands	+31 30 274 88 88	https://www.umcutrecht.nl/nl/Subsites-nl/Nationaal-Vergiftigingen-Informatie-Centrum-(NVIC)/Productinformatie/Informatiesheet-product-notification
Turkey	+90 0312 433 70 07 / 112 / 114	https://www.istanbulaccueil.net/les-numeros-durgence/
United Arab Emirates	800 424 / 998	
United Kingdom	+44 844 892 0111 / 999 / 111	https://www.toxbase.org/
United States of America	+1 800 222 122 / 911	https://www.poison.org/

SECTION 2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification according to regulation (EC) N° 1272/2008.

This product does not meet the criteria for classification in any hazard class according to Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.

2.2. Label elements

Labelling according to regulation (EC) N° 1272/2008.

Void.

Hazard statements:

Void.

Precautionary statements :

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

P102 Keep out of reach of children.

EUH 208 Contains Subtilisin. May produce an allergic reaction.

Regulation (EC) No 648/2004 on detergents / labelling for contents:

anionic surfactants, non-ionic surfactants : < 5%

preservation agents (2-BROMO-2-NITROPROPANE-1,3-DIOL), enzymes.

2.3. Other hazards

PBT and vPvB: Not applicable.

SECTION 3. COMPOSITION/INFORMATIONS ON INGREDIENTS

3.1. Substances

Not applicable.

3.2. Mixtures

Hazardous components

(classification according to regulation (EC) N° 1272/2008 [CLP] and (EU) 2020/878)

Chemical name	No#-CAS_No#-CE_Reg number	Classification	Concentration by weight (%)
Subtilisin	CAS: 9014-01-1 EINECS: 232-752-2 Index number: 647-012-00-8 Reg.nr: 01-2119480434-38-XXXX	Resp. Sens.1, H334 Eye Dam.1, H318 Aquatic Acute 1, H400 Acute Tox. 4, H302 Skin Irrit.2, H315 STOT SE 3, H335	≥ 0.1 - < 0.25%

For the full text of the H-statements mentioned in this Section see Section 16.

SECTION 4. FIRST AIDS MEASURES

4.1. Description of first aid measures

- General information:

Take affected persons out into the fresh air.
Never give anything by mouth to an unconscious person.

- After inhalation:

In case of unconsciousness place patient stably in side position for transportation.
Consult a doctor.

- After skin contact:

Remove contaminated clothing.
Immediately wash with water and soap and rinse thoroughly.
In case of irritation, consult a doctor.

- After eye contact:

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids.
Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs. Avoid strong water jet-risk of cornea damage, consult a doctor.

- After swallowing:

Drink plenty of water and provide fresh air. Call for a doctor immediately. Seek immediate medical advice.

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

No further relevant information available.

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

No further relevant information available.

SECTION 5. FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing agents:

CO₂, powder or water spray. Fight larger fires with water spray. Use fire extinguishing methods suitable to surrounding conditions.

5.2. Special hazards arising from the substance or mixture

No further relevant information available.

5.3. Advice for firefighters

Protective equipments:

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

Additional information:

Collect contaminated fire fighting water separately. It must not enter the sewage system.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.

Avoid contact with spilled material.

Avoid contact with skin and eyes.

Avoid inhalation of vapors.

Goggles and/ or face shield, if contact with eyes or splashes are anticipated.

For non-emergency personnel, ensure sufficient ventilation.

For emergency responders: use safety goggles, in case of contact with the eyes.

6.2. Environmental precautions

Do not allow to enter sewers / surface or ground water.

6.3. Methods and materials for containment and cleaning up

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust, silica gel).

Dispose contaminated material as waste according to item 13.

6.4. Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Keep receptacles tightly sealed.

Avoid contact with skin, eyes and clothing.

Ensure good ventilation/exhaustion at the workplace.

Wash contaminated clothing before reuse.

Do not eat, drink or smoke during the usage of the product.

Wash your hands thoroughly after handling.

Information about fire and explosion protection: no special measures required.

7.2. Conditions for safe storage, including any incompatibilities

Store in cool, dry conditions in well sealed receptacles.

Requirements to met by storerooms and receptacles: Keep containers tightly closed. Store in a cool location.

Information about storage in one common storage facility: Store away from oxidising agents.

Further information about storage conditions: Protect from heat and direct sunlight.

7.3. Specific end use(s)

No further relevant information available.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Ingredients with limit values that require monitoring at the workplace:

- CAS 57-55-6 Propane-1,2-diol

WEL (Great Britain): Long-term value: 474*10**mg/m3, 150* ppm

*Total vapour and particulates**particulates

- CAS 9014-01-1 Subtilisin

WEL (Great Britain): Long-term value: 0.00004 mg/m3, Sen

DNELs

CAS 9014-01-1 Subtilisin

- Workers: Inhalation - Long term exposure, Local effects: 60 ng/m3.

- General population:

Inhalation - Long term exposure, Local effects: 15 ng/m3.

Oral - Long term exposure, Systemic effects: 2.86 mg/kg bw/d

Oral - Acute/Short term exposure, Systemic effects: 17.28 mg/kg bw/d

PNECs

CAS 9014-01-1 Subtilisin

- Fresh water: 1.7 µg/L

- Marine water: 0.17 µg/L

- Intermittent releases: 0.9 µg/L

- STP (Sewage Treatment Plant): 65.000 µg/L.

- Soil: 568 µg/kg soil dw.

8.2. Exposure controls

Provide adequate ventilation.

Individual protection measures, such as personal protective equipment

General protective and hygienic measures:

Avoid contact with skin and eyes.

Remove contaminated clothes and wash them before reusing them.

Wash hands before breaks and at the end of work.

Keep away from foodstuffs, beverages and feed.

Do not eat, drink or smoke while using the product.

Respiratory protection:



Use suitable respiratory protective device in case of insufficient ventilation.

Hand protection:



Wear suitable gloves (EN 374).

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

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation. Due to missing tests, no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Penetration time of glove material: the determined penetration times according to EN 16523-1:2015 are not performed under practical conditions. Therefore, a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

Eye protection:



Goggles recommended during refilling.

Skin and body protection:



Protective work clothing.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state :	Liquid
Colour:	Yellowish
Odour:	Characteristic
Odour threshold:	Not determined
Melting point/freezing point :	Not determined
Flammability:	Not applicable
Lower and upper explosion limit :	Not determined
Flash point:	Not Flammable
Auto-ignition temperature:	Not determined
Decomposition temperature:	Not determined
pH at 20°C:	6-8
Viscosity:	Not determined
Dynamic:	Not determined
Solubility water:	Not determined
Partition coefficient n-octanol/water (log value):	Not determined
Vapour pressure:	Not determined
Density and/or relative density:	Not determined

9.2. Other information

Auto-ignition temperature:	Product is not selfigniting
Explosive properties:	Product does not present an explosion hazard
Oxidising properties:	Not oxidising
Evaporation rate:	Not determined

Information with regard to physical hazard classes:

Explosives:	Void
Flammable gases:	Void
Aerosols:	Void
Oxidising gases:	Void
Gases under pressure:	Void
Flammable liquids and solids:	Void
Self-reactive substance and mixtures:	Void
Pyrophoric liquids and solids:	Void
Self-heating substances and mixtures:	Void
Substances and mixtures, which emit flammable gases in contact with water:	Void
Oxidising liquids and solids:	Void
Organic peroxides:	Void
Corrosive to metals:	Void
Desensitised explosives:	Void

SECTION 10. STABILITY AND REACTIVITY

10.1. Reactivity

No further relevant information available.

10.2. Chemical stability

Stable at environment temperature.

10.3. Possibility of hazardous reactions

No dangerous reactions known.

10.4. Conditions to avoid

No further relevant information available.

10.5. Incompatible materials

No further relevant information available.

10.6. Hazardous decomposition products

No dangerous decomposition products known.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

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

LD/LC50 values relevant for classification:

CAS 9014-01-1 Subtilisin

Oral LD50: 1.728 mg/kg bw (rat).

- **Skin corrosion/irritation:** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation:** Potentially irritant. Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation:** Based on available data, the classification criteria are not met.
- **Germ cell mutagenicity:** Based on available data, the classification criteria are not met.
- **Carcinogenicity:** Based on available data, the classification criteria are not met.
- **Reproductive toxicity:** Based on available data, the classification criteria are not met.
- **STOT-single exposure:** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure:** Based on available data, the classification criteria are not met.
- **Aspiration hazard:** Based on available data, the classification criteria are not met.
- **Additional toxicological information Repeated dose toxicity:** Based on available data, the classification criteria are not met.
- **Endocrine disrupting properties:** None of the ingredients is listed.

SECTION 12. ECOLOGICAL INFORMATION

12.1. Toxicity

Aquatic toxicity:

CAS 9014-01-1 Subtilisin

- Acute fish: The 96-hour LC50 for Subtilisin, batch PXI48489 (measured) was 15.6 mg enzyme concentrate dry matter/L (equivalent to 8.2 mg active enzyme protein/L). $\leq 10\%$ mortality based on measured 10.9 mg enzyme concentrate dry matter/L (equivalent to 5.7 mg active enzyme protein/L). Conducted under semi-static (daily renewal) exposure conditions.

- Long-term fish:

The EC50 value of Subtilisin, batch PPA25057, measure on mortality was estimated to be 0.74 mg enzyme concentrate dry matter/L (equivalent to 0.21 mg active enzyme protein/L).

The EC10 value was 0.06 mg enzyme concentrate dry matter/L (equivalent to 0.017 mg active enzyme protein/L).

NOEC on hatching success in fathead minnow is ≥ 1.49 mg enzyme concentrate dry matter/L. Mortality, body length and weight and time to 95% hatch appear to be the most sensitive parameters in this early life stage test of the fathead minnow, with the NOEC for Subtilisin, batch PPA 25057 being 0.15 mg enzyme concentrate dry matter/L (measured as/equivalent to 0.426 mg active enzyme protein/L). Conducted under continuous flow conditions.

The EC10 and LOEC of Subtilisin, batch PBI48037 for larval mortality was 0.047 mg enzyme concentrate dry matter/L (equivalent to 0.024 mg active enzyme protein/L)

The NOEC for larval mortality was estimated to be 0.12 mg enzyme concentrate dry matter/L.

The lowest observed effect level (LOEC) for larval mortality of the test substance was nominally 0.37 mg enzyme concentrate dry matter/L, which was estimated to be 0.047 mg enzyme concentrate dry matter/L (measured).

LC50 ≥ 0.092 mg enzyme concentrate dry matter/L (highest concentration).

Performed under flow-through conditions.

- Acute invertebrates:

The geometrical mean of the EC50 values was 2.56 mg enzyme concentrate dry matter/L and the geometrical mean of the four values in active enzyme protein was 0.331 mg aep/L.

The 48-hour EC50 of Subtilisin, batch PXI48489 for the immobilisation of *Daphnia magna* was 0.327 mg enzyme concentrate dry matter/L (corresponding to 0.172 mg active enzyme protein/L).

The 'no-observed effect concentration' NOEC was 0.071 mg enzyme concentrate dry matter/L. Media was renewed after 24 hours.

(Reliability: 2) The nominal 48-hour EC50 of the Subtilisin, batch PPA3980 for the immobilisation of *Daphnia magna* was 0.90 mg enzyme concentrate dry matter/L, equivalent to 0.092 mg/L.

NOEC at 48 h was 0.55 mg enzyme concentrate dry matter/L.

(Reliability: 2) The nominal 48-hour EC50 of the Subtilisin, batch PPA3352 for the immobilisation of *Daphnia magna* was nominal 2.4 mg enzyme concentrate dry matter/L, equivalent to 0.062 mg/L active enzyme protein/L.

NOEC at 24 and 48 h was 1.7 mg enzyme concentrate dry matter/L.

(Reliability: 2) The nominal 48-hour EC50 of the Subtilisin, batch PPA4046 for the immobilisation of *Daphnia magna* was 60.4 mg enzyme concentrate dry matter/L, equivalent to 12.4 mg/L active enzyme protein/L.

NOEC at 24 and 48 h was 30.2 mg enzyme concentrate dry matter/L.

- Long-term invertebrates:

The long-term effect of Subtilisin on invertebrates was based on the flow-through test, since it was the most reliable study. (Reliability: 2) The time integrated mean value of 7% for Subtilisin, batch PBI48037 was used for the calculation of NOEC. The data processing showed that 21-day NOEC was 0.0016 mg enzyme concentrate dry matter/L.

The 21-d EC10 was estimated to be between 0.0016 mg/L and 0.0053 mg enzyme concentrate dry matter/L, corresponding to values 0.79 and 2.7 µg active enzyme protein/L.

The 21-day EC50 was estimated to be between 0.022 mg enzyme concentrate dry matter/L and 0.11 mg enzyme concentrate dry matter/L. Media renewal every second day.

The 21-day EC50 (reproduction) of Savinase, batch PPA25057 could not be calculated due to low levels of inhibition. 21-d NOEC (reproduction) was 1.14 mg enzyme concentrate dry matter/L (equivalent to 0.324 mg active enzyme protein/L).

- Algae :

(Reliability 2) Based on the initial measured concentrations, after 72 hours of exposure to Subtilisin, batch PXI48489, the ErC50 was 1.58 mg enzyme concentrate dry matter/L, equivalent to 831 µg active enzyme protein (aep)/L.

The 72-h NOEC of the test substance (as initially measured) for the growth rate was 0.605 mg enzyme concentrate dry matter/L, equivalent to 0.317 mg active enzyme protein/L.

(Reliability 2) Based on the initial measured concentrations, after 72 hours of exposure to Savinase, batch PBI48037, the ErC50 of 9.77 mg enzyme concentrate dry matter/L corresponding to 5.02 mg active enzyme protein/L and the NOEC was 0.042 mg enzyme concentrate dry matter/L.

(supporting study) Based on the nominal concentrations, after 72 hours of exposure to Alcalase, batch PPA 4046, the ErC50 of 339 mg enzyme concentrate dry matter/L corresponding to 69.5 mg active enzyme protein/L and the NOEC was 118 mg enzyme concentrate dry matter/L.

(supporting study) Based on the nominal concentrations, after 72 hours of exposure to Esperase, batch PPA 3980, the ErC50 of 76 mg enzyme concentrate dry matter/L corresponding to 7.8 mg active enzyme protein/L and the NOEC was 24 mg enzyme concentrate dry matter/L.

(supporting study) Based on the nominal concentrations, after 72 hours of exposure to Savinase, batch PPA 3352, the ErC50 of >1509 mg enzyme concentrate dry matter/L corresponding to > 39.4 mg active enzyme protein/L and the NOEC was > 1509 mg enzyme concentrate dry matter/L.

12.2. Persistence et degradability

The surfactant(s) contained in the preparation complies(comply) with the biodegradability criteria as laid down in regulation (EC) No.648/2004 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. Subtilisin has been tested for ready biodegradation in the modified sturm test (OECD 301B) where it was found to be readily biodegradable.

12.3. Bioaccumulative potential

Subtilisin will not bioaccumulate, because it is highly water soluble, has a low logPow (<-1.3) and it is biodegradable.

12.4. Mobility in soil

No further relevant information available.

12.5. Results of PBT and vPvB assessment

Not applicable.

12.6. Other adverse effects

Endocrine disrupting properties: The product does not contain substances with endocrine disrupting properties.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Dispose according to National Regulations. Must not be disposed together with household garbage. Do not allow product to reach sewage system. Contact manufacturer for recycling information.

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

SECTION 14. TRANSPORT INFORMATION

14.1. UN number

Void.

14.2. UN proper shipping name

Void.

14.3. Transport hazard class(es)

Void.

14.4. Packing group

Void.

14.5. Environmental hazards

Not applicable.

14.6. Special precautions for user

Not applicable.

14.7. Maritime transport in bulk according to IMO instruments

Not applicable.

SECTION 15. REGULATORY INFORMATION

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

REACH Regulation 1907/2006/EC

Regulation (EU) 2020/878

CLP Regulation 1272/2008/EC

Regulation (EC) No.648/2004 on detergents, as amended

Directive 98/24/EC on the protection of health and safety of workers from the risks related to chemicals agents at work

Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment - Annex II: None of the ingredients is listed

Regulation EU 2019/1148 Annex I - Restricted explosive precursors and Annex II: None of the ingredients is listed

Regulation (EC) No 273/2004 on drug precursors: None of the ingredients is listed

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors: None of the ingredients is listed

SVHC according to REACH, Article 57: it doesn't contain substances of very high concern (SVHC)

Council Directive 94/33/EC on the protection of young people at work, as ammended

Directive 92/85/EEC on the introduction of measures to encourage improvements in the safety and health at work of pregnant workers and workers who have recently given birth or are breastfeeding, as ammended

Regulation (EC) No 1907/2006 Annex XVII Conditions of restriction: 65.

15.2. Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16. OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases:

- H302 Harmful if swallowed.
- H315 Causes skin irritation.
- H318 Causes serious eye damage
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H335 May cause respiratory irritation.
- H400 Very toxic to aquatic life.

Training hints: Suitable training on safety in handling, storing and converting the product should be given to the employees based on all the existing information.

Key or legend to abbreviations and acronyms used in the safety data sheet

ADN – European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways;
ADR – European Agreement concerning the International Carriage of Dangerous Goods by Road;
AICS – Australian Inventory of Chemical Substances;
ASTM – American Society for the Testing of Materials;
b.w. – Body Weight;
CAS – Chemical Abstracts Service (division of the American Chemical Society)
CLP – Classification Labelling Packaging Regulation;
CMR – Carcinogen, Mutagen or Reproductive Toxicant;
DIN – Standard of the German Institute for Standardisation;
DNEL – Derived No Effect Level;
DSL – Domestic Substances List (Canada);
ECHA – European CHemicals Agency;
EC Number – European Community Number;
ECx – Concentration associated with x% response;
EINECS – European Inventory of Existing Commercial Chemical Substances
ELINCS – European List of Notified Chemical Substances
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 (« OACI » in French);
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;
PNEC – Predictive No Effect Concentration;
PICCS – Philippines Inventory of Chemicals and Chemical Substances;
(Q)SAR – (Quantitative) Structure Activity Relationship;
REACH – Regulation (EC) N° 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals;
RID – Regulation concerning the International Carriage of Dangerous Goods by Rail;
SADT – Self-Accelerating Decomposition Temperature;
SDS – Safety Data Sheet;
SVHC – Substance of Very High Concern;
STEL – Short Term Exposure Limit;
TCSI – Taiwan Chemical Substance Inventory;
TMP – Table of Professional Diseases (« Tableau des Maladies Professionnelles » in French) ;
TRGS – Technical Rule for Hazardous Substances;
TSCA – Toxic Substances Control Act (USA);
TWA – Time Weighted Averages;
UFI – Unique Formula Identifier;
UN – United Nations;
VLE – Exposure Limit Value (ELV) (« Valeur Limite d'Exposition » in French);
VME – Exposure Average Value (« Valeur Moyenne d'Exposition » in French);
vPvB – Very Persistent and Very Bioaccumulative;
WGK – Water Hazard Class (« Wassergefährdungsklasse » in German).