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

1.1 Product identifier

Product name:	CATALIZZATORE VTR - POLY
Product code:	40.040-40.041
UFI code:	G63Q-7HRK-EC0S-YDN9

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

Catalyst

1.3 Details of the supplier of the safety data sheet

Company name:	Silpar TK snc
Address:	Via Rosa Luxemburg 12/14 10093 - Collegno (TO)
Telephone:	+39 011 7791177
Fax:	+39 011 7791177
Email:	sicurezza@silpartkline.com

1.4 Emergency telephone number

CAVp "Osp. Pediatrico Bambino Gesù - Roma	Tel. +39 06 68593726
Az. Osp. Univ. Foggia	Tel. +39 0881 732326
Az. Osp. "A. Cardarelli" – Napoli	Tel. +39 081 7472870
CAV Policlinico "Umberto I" – Roma	Tel. +39 06 49978000
CAV Policlinico "A. Gemelli" – Roma	Tel. +39 06 3054343
Az. Osp. "Careggi" U.O. Tossicologia Medica – Firenze	Tel. +39 055 7947819
CAV Centro Nazionale di Informazione Tossicologica – Pavia	Tel. +39 0382 24444
Osp. Niguarda Ca' Granda – Milano	Tel. +39 02 66101029
Azienda Ospedaliera Papa Giovanni XXII – Bergamo	Tel. +39 800883300
Azienda Ospedaliera Universitaria Integrata Verona	Tel. +39 800 011858

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Reg. EU n°1272/2008 [CLP]

Org. Perox. D H242
Skin Sens. 1 H317
Eye Irrit. 2 H319
Aquatic Acute 1 H400
Aquatic Chronic 1 H410

2.2 Label elements

Hazard pictograms:



Signal word: Danger

Hazard statements:
H242 Heating may cause a fire.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements:

P101 If medical advice is needed, have product container or label at hand
P102 Keep out of reach of children
P103 Read label before use
P210Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P234 Keep only in the original packaging.
P264 Wash hands thoroughly after use.
P273 Do not release into the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P302 + P352 IF ON SKIN: Wash with plenty of water.
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove any contact lenses if it is easy to do so. Continue rinsing.
P403 + P235 Store in a well-ventilated place. Keep in a cool place.
P501 Dispose of contents/container in accordance with local/regional/ national/international regulations

Contains:
Dibenzoyl peroxide

2.3 Other hazards

Substance vPvB: None - Substance PBT: None.
Negative health effects:
Inhalation: Inhalation of vapors due to thermal decomposition of the product: Risk of irritation to the respiratory tract. Toxic effects cannot be excluded.
Consequences on the environment:
Very toxic to fish. Highly toxic to daphnia. Very toxic to algae.
Bioaccumulation is unlikely. Easily biodegradable.
Physical and chemical hazards:
If the product is dried out, explosive decomposition is possible in the event of shock or temperature increase. May cause ignition of combustible materials. Thermal decomposition into flammable and toxic products.
Decomposition products: see chapter 10

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

N.A.

3.2 Mixtures

1.CAS 2.N° EC 3.N° Index 4.N° REACH	Name	Weight (%)	Classification1272/2008 (CLP)
1.94-36-0 2.202-327-6 3.617-008-00-0 4.01-2119511472-50-XXXX	Dibenzoylperoxide	48-55	Org. Perox. B; H241 Skin Sens. 1; H317 Eye Irrit. 2; H319 Aquatic Acute 1; H400 (M=10) Aquatic Chronic 1; H410 (M=10)
1.131-11-3 2.205-011-6 3.Not Available 4.01-2119437229-36-XXXX	Dimethylphthalat	25-30	Substance with a community workplace exposure limit
1.107-21-1 2.203-473-3 3.603-027-00-1 4.01-2119456816-28 -XXXX	Ethyleneglycol	<10	Acute Tox. 4 (Oral); H302 STOT RE 2, H373

The full text of the H phrases is given in section 16 of the safety data sheet

SECTION 4: FIRST AID MEASURES

4.1 Description of first aidmeasures

Eye contact	In case of contact with the eyes, rinse them with water for an adequate amount of time and keeping the eyelids open, then immediately consult an ophthalmologist. Protect the uninjured eye.
Skin contact	Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention immediately. Wash contaminated clothing before using it again.
Ingestion	Do not under any circumstances induce vomiting. SEEK MEDICAL EXAMINATION IMMEDIATELY
Inhalation	Remove to open air. If unwell, contact a doctor.

4.2 Most important symptoms and effects, both acute and delayed

For symptoms and effects caused by the contained substances, see chap. 11.

4.3 Indication of any immediate medical attention and special treatment needed

In the event of an accident or discomfort, consult a doctor immediately (if possible show the instructions for use or the safety data sheet).

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT
Extinguishing substances are: carbon dioxide, foam, chemical powder.
UNSUITABLE EXTINGUISHING EQUIPMENT
Do not use jets of water.

5.2 Special hazards arising from the substance or mixture

The product burns violently (protect yourself from possible splashes)., May cause ignition of combustible materials, From thermal decomposition, formation of very reactive free radicals.
Thermal decomposition into flammable and toxic products: Carbon dioxide (CO2), Benzoic acid, Benzene, Phenyl benzoate, diphenyl.

5.3 Advice for firefighters

Cool the containers with jets of water to avoid decomposition of the product and the development of substances potentially dangerous to health. Always wear full fire protection equipment. Collect extinguishing water that must not be discharged into sewers. Dispose of the contaminated water used for extinguishing and the residue of the fire according to current regulations.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.
Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

6.2 Environmentalprecautions

Prevent the product from spilling or entering drains or waterways. Spills or uncontrolled discharges into watercourses should be reported immediately to the Environment Agency or other appropriate regulatory body.

6.3 Methods and material for containment and cleaning up

Absorb the remainder with inert absorbent material. Make sure the leakage site is well aired. Check incompatibility for container material in section 7. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4 Reference to othersections

Refer to sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Technical measures/precautions:
Storage and handling provisions applicable to the products: Organic peroxides. Irritating. Sensitizing. Dangerous for the environment.
Provide adequate ventilation and extraction near the equipment. Provide showers, eye fountains. Have a self-contained breathing apparatus nearby (for emergency interventions). Provide water supply points nearby. Provide a fire blanket nearby. Provide earthing.
Tips for safe use:
Reduce the quantities of product present in the workplace to the minimum necessary to continue the work. Maximum cleanliness in the workplace is a necessary and very important condition for workplace safety. Handle and open the container with caution. Prohibit all sources of sparks and ignition - No smoking. Protect from contamination. Do not put the product back in the containers from which it was taken (risk of decomposition). Never mix peroxides directly with accelerators (risk of explosion). Add each component to the resin separately. In case of insufficient ventilation, wear suitable respiratory equipment.
Hygiene measures:
Take off contaminated clothing immediately. Avoid contact with skin and eyes. Do not eat, drink or smoke when using. Wash hands after handling. Remove contaminated clothing and protective clothing before entering food catering areas.

7.2 Conditionsfor safe storage, including any incompatibilities

Store in a well-insulated place (peroxide room) away from other substances. Storage rooms must be constructed and equipped so as not to exceed the maximum prescribed temperature. Use non-combustible building materials. Keep/store away from clothing/combustible materials. Close carefully and store in a cool, dry and well-ventilated place. Keep away from heat and sources of ignition. Not smoking. Store in the original container. Use only very clean containers and equipment free from traces of impurities. Never return unused material to its original packaging. Do not reuse empty containers to store other products. Protect containers from possible impacts. Take preventive measures to avoid the production of electrostatic charges. Provide earthing and electrical safety materials. Provide waterproof flooring.
Store between: 5°C up to 30°C, (to maintain the technical qualities of the product).
Incompatible products:
Strong oxidizing agents Strong reducing agents Acids Bases Amines Heavy metal compounds Heavy metals Sulfur compounds Rust, ash, dust (risk of self-accelerated exothermic decomposition)
Packing material:
Recommended: Store only in the original container.
To avoid: Ordinary metals (ordinary steel), copper, natural or synthetic rubber, glass - ceramic (risk of splinters being projected if the container breaks due to overpressure)

7.3 Specific end use(s)

See section 1.2

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Dibenzoylperoxide
OEL (IT) 2009 TWA – 5 mg/m3 - ACGIH
ACGIH (US) 02 2012 TWA – 5 mg/m3
dimethyl phthalate
OEL (IT) 2009 TWA – 5 mg/m3 - ACGIH
ACGIH (US) 02 2012 TWA – 5 mg/m3
Ethane-1,2-diol (ethylene glycol)
EU ELV 12 2009 STEL 40 ppm 104 mg/m3 Indicative value
EU ELV 12 2009 TWA 20 ppm 52 mg/m3 Indicative value
OEL (IT) 2009 STEL 40 ppm 104 mg/m3
OEL (IT) 2009 TWA 20 ppm 52 mg/m3
ACGIH (US) 02 2012 TLV-C – 100 mg/m3 Aerosol

Derived No Effect Level (DNEL)
Dibenzoyl peroxide
Cutaneous 13.3 mg/kg bw/day (Systemic, chronic)
Inhalation 39 mg/m^3 (Systemic, chronic)
Cutaneous 34 µg/cm^2 (Local, chronic)
Oral 2 mg/kg bw/day (Systemic, chronic)*
Dimethyl phthalate
Cutaneous 135 mg/kg bw/day (Systemic, chronic)
Inhalation 66.1 mg/m^3 (Systemic, chronic)
Cutaneous 67.5 mg/kg bw/day (Systemic, chronic)*
Inhalation 16.3 mg/m^3 (Systemic, chronic)*
Oral 9.4 mg/kg bw/day (Systemic, chronic)*
Ethylene glycol
Cutaneous 106 mg/kg bw/day (Systemic, chronic)
Inhalation 35 mg/m^3 (Local, chronic)
Cutaneous 53 mg/kg bw/day (Systemic, chronic)*
Inhalation 7 mg/m^3 (Local, chronic)*

* Values referring to the general population

PNEC exposure limit values
Dibenzoyl peroxide
0.02 µg/L (Fresh water)
0.002 µg/L (Water - intermittent release)
0.602 µg/L (Sea water)
0.013 mg/kg sediment dw (Sediment (Freshwater))
0.001 mg/kg sedimentdw (Marine sediments)
0.003 mg/kg soil dw (Soil)
0.35 mg/L (STP)
Dimethyl phthalate
0.192 mg/L (Fresh water)
0.019 mg/L (Water - intermittent release)
0.39 mg/L (Sea water)
1.3 mg/kg sediment dw (Sediment (Freshwater))
0.13 mg/kg sediment dw (Sediments (Marine))
3.16 mg/kg soil dw (Soil)
4 mg/L (STP)
Ethylene glycol
10 mg/L (Fresh water)
1 mg/L (Water - intermittent release)
10 mg/L (Sea water)
37 mg/kg sediment dw (Sediment (Freshwater))
3.7 mg/kg sedimentdw (Marine sediments)
1.53 mg/kg soil dw (Soil)
199.5 mg/L (STP)

Technical controls
Ensure adequate ventilation, especially in confined areas.
Make sure eye washers and showers are close to the workplace.
Use anti-exposure equipment
Provide an emergency exit.

8.2 Exposure controls

Hands protection	Protect hands with category work gloves (ref. Standard EN 374). For the final choice of the material of the work gloves it is necessary to consider: compatibility, degradation, breakage time and permeation.

	In the case of preparations, the resistance of work gloves to chemical agents must be checked before use as it is not foreseeable. Gloves have a wear time that depends on the duration and method of use.
Respiratoryprotection	Air concentration levels should be kept below exposure limits. When the concentration in the air exceeds the TLV, respiratory protection is required: use approved EN149 FFP2 masks or half-face respirators Type EN140 with Filter Type EN143:A2 or full-face respirators EN136 (Filter Type EN143:A2).
Eye and face protection	Wear protective goggles (see standard EN 166).
Body and skin protection:	Wear professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344).

Environmental exposure controls:
Emissions from production processes and deriving from the use of the product, including those from ventilation equipment, should be controlled for the purposes of compliance with environmental protection legislation.
Product residues must not be discharged uncontrolled into waste water or waterways.
For further information please refer to section 6.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance:	Pasty
Colour:	According to the grade white, red, brown, blue
Odour:	Characteristic
Odourthreshold:	N.A.
pH:	4-5
Melting point/freezing point:	0 °C
Initial boiling point and boiling range:	N.A.
Flash point:	N.A.
Evaporation rate:	N.A.
Flammability (solid, gas):	N.A.
Upper/lower flammability or explosive limits:	N.A.
Vapour pressure:	23 hPa (7732-18-5 acqua)
Vapourdensity (Air=1):	N.A.
Relative density (Water=1):	1,15-1,25 g/cm^3
Solubility(ies):	DIBENZOYL PEROXIDE: 0.35 mg/l at 20 °C (OECD Test Guideline 105)
Partition coefficient: n-octanol/water:	DIBENZOYL PEROXIDE: log Kow: 3.2, at 22 °C (OECD Guideline 117) ETHANE-1,2-DIOL (ETHYLENE GLYCOL): log Kow : -1.36, at 23 °C (calculated)
Auto-ignition temperature (°C):	N.A.
Decomposition temperature:	50 °C
Kinematicviscosity:	N.A.
Explosiveproperties:	N.A.
Oxidisingproperties:	N.A.

9.2 Other information
Saturation concentration: 9.4 – 9.6 %
S ADT: 60°C

9.2.1. Information with regard to physical hazard classes
Risk of fire due to heating.

9.2.2. Other safety characteristics
Information not available

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

It can explode even in the absence of air.

10.2 Chemical stability

The product does not decompose if handled and stored according to regulations.
Exothermic thermal decomposition.
Considerable decomposition with self-ignition upon heating.
SADT = 50°C
The SADT (Self accelerating decomposition temperature) is the minimum temperature at which the self-accelerating decomposition of a substance contained in a typical packaging used for the transport of the product will be triggered.
A dangerous reaction of self-accelerating decomposition and, under certain circumstances, explosion or fire, may be caused by thermal decomposition at or above the SADT indicated here.
Contact with incompatible substances may cause decomposition at or below the SADT temperature.

10.3 Possibility of hazardous reactions

Reactions with reductants.
Reactions with heavy metals.
Reactions with alkalis, amines and strong acids.

10.4 Conditions to avoid

Avoid: the accumulation of electrostatic charges, heating, heat, flames and hot surfaces.
Temperatures above 30°C

10.5 Incompatiblematerials

Strong oxidizing agents, strong reducing agents, acids, bases, amines, transition metal salts, sulfur compounds, rust, ash dust. Respect the conditions of use with: accelerators (amines, metallic salts)

10.6 Hazardousdecomposition products

From thermal decomposition, formation of very reactive free radicals., Thermal decomposition into flammable and toxic products: Carbon dioxide (CO2), Benzoic acid, Benzene, Phenyl benzoate, Diphenyl

SECTION 11: TOXICOLOGICAL INFORMATION

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

Unless otherwise specified, the data required by Regulation (EU) 878/2020 indicated below are to be considered N.A.:
Acute toxicity
Based on available data, the classification criteria are not met.
LD/LC50 values relevant for classification:
94-36-0 dibenzoyl peroxide
Oral LD0 2,000 mg/kg (rat)
By inhalation LC0 24.3 mg/l (rat)
131-11-3 dimethyl phthalate
Oral LD50 >2,400 mg/kg (rat)
Dermal LD50 >10,000 mg/kg (rabbit)
107-21-1 ethylene glycol
Oral LD50 7,712 mg/kg (rat)
Dermal LD50 >3,500 mg/kg (rabbit)
By inhalation LC50 / 6h >2.5 mg/l (mouse)
· Skin corrosion/skin irritation Based on available data, the classification criteria are not met.
· Serious eye damage/eye irritation
Causes serious eye irritation.
· Respiratory or skin sensitization
May cause an allergic skin reaction.
· 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.

· Specific target organ toxicity (STOT) - single exposure
Based on available data, the classification criteria are not met.
· Specific target organ toxicity (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.

11.2 Information on other hazards
Risk of fire due to heating.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Endpoint	Duration test (hours)	Species	Value
Benzoyl peroxide			
EC10(ECx)	504h	Crustaceans	0.001mg/l
LC50	96h	Fish	0.06mg/l
EC50	72h	Algae	0.042mg/l
EC50	48h	Crustaceans	0.11mg/l
Dimethyl phthalate			
LC50	96h	Fish	39 mg/l
EC50	72h	Algae	259.76 mg/l
EC50	48h	Crustaceans	52 mg/l
Ethylene glycol			
LC50	96h	Fish	>10000mg/l
EC50	48h	Crustaceans	>100mg/l
EC50	96h	Algae	6500-13000mg/l

12.2 Persistence and degradability
Stability in water:
DIBENZOYL PEROXIDE:
Half-life: < 2.4 h at 50 °C and pH 4 - 9
Method: OECD TG 111
Biodegradation (In water): Based on the available information it is not possible to draw conclusions regarding the biodegradability of the mixture.
DIBENZOYL PEROXIDE:
Easily biodegradable: 71 % after 28 d (Method: OECD Guideline 301 D)
131-11-3 dimethyl phthalate
Rapidly biodegradable in water / 28d >91 %
ETHANE-1,2-DIOL (ETHYLENE GLYCOL):
Easily biodegradable: 90 - 100 % after 10 d (Method: OECD Guideline 301 A)

12.3 Bioaccumulative potential
94-36-0 dibenzoyl peroxide
Log Kow 3.2 (OECD TG 117)
131-11-3 dimethyl phthalate
Log Kow 2.12
BCF 57 (fish)

12.4 Mobility in soil
94-36-0 dibenzoyl peroxide
Log Koc 3.8 (OECD TG 121)
131-11-3 dimethyl phthalate
Log Koc 1.57

12.5 Results of PBT and vPvB assessment
On the basis of available data, the product does not contain PBT or vPvB substances in percentage greater than 0.1%.

12.6 Endocrine disruptingproperties
No data available

12.7 Other adverseeffects
No data available

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods
Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations. Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations. Avoid littering. Do not contaminate soil, sewers and waterways. Waste transportation may be subject to ADR restrictions.
CONTAMINATED PACKAGING
Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14: TRANSPORT INFORMATION

14.1 UN number or ID number
ADR-UN number: 3108
IATA-Un number: 3108
IMDG-Un number: 3108

14.2 UN proper shipping name
ADR-Shipping Name: Organic peroxide type E, solid (Dibenzoyl peroxide)
IATA-Technical name: Organic peroxide type E, solid (Dibenzoyl peroxide)
IMDG-Technical name: Organic peroxide type E, solid (Dibenzoyl peroxide)

14.3 Transport hazard class(es)



ADR / RID: Class: 5.2 Label: 5.2
IMDG: Class: 5.2 Label: 5.2
IATA: Class: 5.2 Label: 5.2

14.4 Packing group
ADR-Packing Group: -
IATA-Packing group: -
IMDG-Packing group: -

14.5 Environmental hazards
Marine pollutant: Yes

14.6 Special precautions for user
Kemler Number: -
EMS number: F-J, S-R
Stowage Category A
MARPOL and the IBC Code Not applicable.
Transport/further information:
ADR
Limited quantities (LQ) 500 g
Excepted Quantities (EQ) Code: E0
Prohibited for transport in exempt quantities
Transport category 2
Tunnel restriction code D
IMDG

Limited quantities (LQ) 500 g
Excepted Quantities (EQ) Code: E0
Not permitted as Excepted Quantity 02

14.7 Maritime transport in bulk according to IMO instruments

Information not relevant.

SECTION 15: REGULATORY INFORMATION

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

Seveso Category - Directive 2012/18/EC:
P6b, E1

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation1907/2006.
Restrictions related to the product:
Restriction 3
Restriction 40
Restrictions relating to the substances contained:
Restriction 75

Substances subject to authorisarion (Annex XIV REACH).
None.

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:
None.

Substances subject to the Rotterdam Convention:
None.

Substances subject to the Stockholm Convention:
None.

Healthcare controls.
Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

15.2 Chemical safety assessment

A chemical safety assessment has been carried out for the following substances:
Dibenzoylperoxide

SECTION 16: OTHER INFORMATION

Full text of H codes mentioned in sections 2 - 3

H241 Risk of fire or explosion if heated.
H302 Harmful if swallowed.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H373 May cause damage to organs through prolonged or repeated exposure.
H400 Very toxic to aquatic organisms.
H410 Very toxic to aquatic life with long lasting effects.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule

- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation.

Classification and procedure used to derive it according to regulation (EC)1272/2008 [CLP] in relation to mixture:

Organic peroxides, E H242 - Calculation method
Skin Sens. 1 H317 - Calculation method
Eye Irrit. 2 H319 - Calculation method
Aquatic Acute 1 H400 - Calculation method
Aquatic Chronic 1 H410 - Calculation method

GENERAL BIBLIOGRAPHY

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Regulation (EU) 1272/2008 of the European Parliament (CLP)
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Regulation (EC) 790/2009 of the European Parliament (I Atp. CLP)
Regulation (EU) 286/2011 of the European Parliament (II Atp. CLP)
Regulation (EU) 618/2012 of the European Parliament (III Atp. CLP)
Regulation (EU) 487/2013 of the European Parliament (IV Atp. CLP)
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Delegated Regulation (EU) 2018/1480 (XIII Atp. CLP)
Regulation (EU) 2019/1148
Delegated Regulation (EU) 2020/217 (XIV Atp. CLP)
Delegated Regulation (EU) 2020/1182 (XV Atp. CLP)
Delegated Regulation (EU) 2021/643 (XVI Atp. CLP)
Delegated Regulation (EU) 2021/849 (XVII Atp. CLP)
Delegated Regulation (EU) 2022/692 (XVIII Atp. CLP)
Regulation (EU) 2020/878 of the European Parliament

The Merck Index. - 10th Edition
Handling Chemical Safety
INRS - Fiche Toxicologique (toxicological sheet)
Patty - Industrial Hygiene and Toxicology
N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
ECHA website

Note for users:
The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.
This document must not be regarded as a guarantee on any specific product property.
The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.
Provide appointed staff with adequate training on how to use chemical products

Changes compared to the previous version: