

RAYEN JOINTS WHITENER
Code: 930076/002

Version: 2 Revision: 20/04/2022

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

- 1.1 PRODUCT IDENTIFIER: RAYEN JOINTS WHITENER
Code: 930076/002

- 1.2 RELEVANT IDENTIFIED USES AND USES ADVISED AGAINST:
Intended uses (main technical functions): Tiles joints whitener. Industrial Professional Consumers
Sectors of use: Consumer uses (SU21).
Uses advised against: None. As there is not classified as dangerous, this product can be used in ways other than the identified uses, but all uses have to be consistent with the safety guidelines provided.
Restrictions on manufacture, placing on market and use, according to Annex XVII of Regulation (EC) No. 1907/2006: Not restricted.

- 1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET:
 GRUPO RAYEN, S.L.
 Avda. Bertran i Güell, 41-51 - E-08850 - Gavà (Barcelona)
 Phone: +34 93 635 30 00 - Fax: +34 93 662 77 10
E-mail address of the person responsible for the safety data sheet: rayen@rayen.com

- 1.4 EMERGENCY TELEPHONE NUMBER: +34 93 635 30 00 (9:00-13:00 / 15:00-18:00 h.) (working hours)

SECTION 2 : HAZARDS IDENTIFICATION

- 2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE:
 This product is not classified as dangerous. in accordance with Regulation (EC) No. 1272/2008~487/2013 (CLP)

- 2.2 LABEL ELEMENTS:
 This product does not require pictograms, in accordance with Regulation (EC) No. 1272/2008~487/2013 (CLP)
Hazard statements: None.
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.
 P501a Dispose of contents/container in accordance with local regulations.
Supplementary statements:
 EUH208 Contains 1,2-benzisothiazol-3(2H)-one, mixture CIT EC 247-500-7 MIT EC 220-239-6 (3:1). May produce an allergic reaction.
Hazardous ingredients: None.

- 2.3 OTHER HAZARDS:
 Hazards which do not result in classification but which may contribute to the overall hazards of the mixture:
Other physicochemical hazards: Vapours may form with air a mixture potentially flammable or explosive.
Other adverse human health effects: Prolonged exposure to vapours may produce transient drowsiness. In case of prolonged contact, the skin may become dry.
Other negative environmental effects: Does not contain substances that fulfil the PBT/vPvB criteria.

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SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

3.1 SUBSTANCES:
Not applicable (mixture).

3.2 MIXTURES:
This product is a mixture.
Chemical description:
Chemical mixture.

INGREDIENTS:



< 1 %

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)
(CAS: 64742-82-1) , List No. 919-446-0 REACH: 01-2119458049-33
CLP: Danger: Flam. Liq. 3:H226 | STOT SE (narcosis) 3:H336 | STOT RE 1:H372i |
Asp. Tox. 1:H304 | Aquatic Chronic 2:H411 | EUH066

Autoclassified
< REACH

Impurities:

Does not contain other components or impurities which will influence the classification of the product.

Stabilizers:

None

Reference to other sections:

For more information, see sections 8, 11, 12 and 16.

SUBSTANCES OF VERY HIGH CONCERN (SVHC):

List updated by ECHA on 17/12/2015.

Substances SVHC subject to authorisation, included in Annex XIV of Regulation (EC) no. 1907/2006:

None

Substances SVHC candidate to be included in Annex XIV of Regulation (EC) no. 1907/2006:

None

PERSISTENT, BIOACCUMULABLE AND TOXIC PBT, OR VERY PERSISTENT AND VERY BIOACCUMULABLE VPvB SUBSTANCES:

Does not contain substances that fulfill the PBT/vPvB criteria.

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SECTION 4 : FIRST AID MEASURES

4.1 DESCRIPTION OF FIRST-AID MEASURES AND MAIN SYMPTOMS AND EFFECTS, ACUTE AND DELAYED:

4.2



Symptoms may occur after exposure, so that in case of direct exposure to the product, when in doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

Route of exposure	Symptoms and effects, acute and delayed	Description of first-aid measures
<u>Inhalation:</u>	Normally does not produce symptoms.	In case of mist or vapour inhalation, move the patient to a well ventilated area.
<u>Skin:</u>	In case of prolonged contact, the skin may become dry.	Remove contaminated clothing. Wash thoroughly the affected area with plenty of cold or lukewarm water and neutral soap, or use a suitable skin cleanser. Do not use solvents or thinners.
<u>Eyes:</u>	Contact with the eyes produces redness and pain.	Remove contact lenses. Rinse eyes copiously by irrigation with plenty of clean, fresh water, holding the eyelids apart. If irritation persists, consult a physician.
<u>Ingestion:</u>	If swallowed in high doses, may cause gastrointestinal disturbances.	If swallowed, seek immediate medical attention. Do not induce vomiting, due to the risk of aspiration. Keep the patient at rest.

4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:

Notes to physician: Treatment should be directed at the control of symptoms and the clinical condition of the patient.
Antidotes and contraindications: Specific antidote not known.

SECTION 5 : FIRE-FIGHTING MEASURES

5.1 EXTINGUISHING MEDIA:

Extinguishing powder or CO2. In the case of more important fires, also alcohol resistant foam. Water may serve for cooling, but it is inefficient in extinguishing. Do not use for extinguishing: direct water jet. Direct water jet may not be effective to extinguish the fire, since the fire may spread.

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:

Fire can produce a dense black smoke. As consequence of combustion or thermal decomposition, hazardous products may be produced: carbon monoxide, carbon dioxide. Exposure to combustion or decomposition products may be a hazard to health.

5.3 ADVICE FOR FIREFIGHTERS:

Special protective equipment: Depending on magnitude of fire, heat-proof protective clothing may be required, appropriate independent breathing apparatus, gloves, protective glasses or face masks and boots. If the fire-proof protective equipment is not available or not used, combat fire from a sheltered position or at a safe distance. The standard EN469 provides a basic level of protection for chemical incidents.
Other recommendations: Cool with water the tanks, cisterns or containers close to sources of heat or fire. Bear in mind the direction of the wind. Do not allow fire-fighting residue to enter drains, sewers or water courses.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:

Eliminate possible sources of ignition and when appropriate, ventilate the area. Do not smoke. Avoid direct contact with this product. Avoid breathing vapours. Keep people without protection in opposition to the wind direction. The floor may become slippery.

6.2 ENVIRONMENTAL PRECAUTIONS:

Avoid contamination of drains, surface or subterranean water and soil. In the case of large scale spills or when the product contaminates lakes, rivers or sewages, inform the appropriate authorities in accordance with local regulations.

6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP:

Contain and mop up spills with non-combustible absorbent materials (earth, sand, vermiculite, diatomaceous earth, etc.). Clean preferably with a biodegradable detergent. Keep the remains in a closed container.

6.4 REFERENCE TO OTHER SECTIONS:

For contact information in case of emergency, see section 1.
For information on safe handling, see section 7.
For exposure controls and personal protection measures, see section 8.
For subsequent waste disposal, follow the recommendations in section 13.

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SECTION 7 : HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING:
Comply with the existing legislation on health and safety at work.
General recommendations:
Use in areas free from sources of ignition and away from heat or electrical sources. Do not smoke. Avoid any type of leakage or escape. Keep the container tightly closed.
Recommendations for the prevention of fire and explosion risks:
Vapours are heavier than air, may spread along floors to a considerable distance, can form explosive mixtures with air and are able to reach distant ignition sources and flame up or explode. Due to its flammability, this material should only be used in areas from which all naked lights and other sources of ignition have been excluded and away from other heat or electrical sources. Do not smoke.
Recommendations for the prevention of toxicological risks:
Do not eat, drink or smoke while handling. After handling, wash hands with soap and water. For exposure controls and personal protection measures, see section 8.
Recommendations for the prevention of environmental contamination:
It is not considered a danger to the environment. In the case of accidental spillage, follow the instructions indicated in section 6.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:
Forbid the entry to unauthorized persons. Keep out of reach of children. This product should be stored isolated from heat and electrical sources. Do not smoke in storage area. If possible, avoid direct contact with sunlight. Avoid extreme humidity conditions. In order to avoid leakages, the containers, after use, should be closed carefully and placed in a vertical position. For more information, see section 10.
Class of store : According to current legislation.
Temperature interval : min: 5. °C, max: 40. °C (recommended).
Incompatible materials:
Keep away from oxidizing agents, from strongly alkaline and strongly acid materials.
Type of packaging:
According to current legislation.
Limit quantity (Seveso III): Directive 96/82/EC~2003/105/EC:
Not applicable.

7.3 SPECIFIC END USES:
For the use of this product do not exist particular recommendations apart from that already indicated.

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SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 CONTROL PARAMETERS:
If a product contains ingredients with exposure limits, may be necessary a personnel monitoring, work place or biological, to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to EN689, EN14042 and EN482 standard concerning methods for assessing the exposure by inhalation to chemical agents, and exposure to chemical and biological agents. Reference should be also made to national guidance documents for methods for the determination of dangerous substances.

OCCUPATIONAL EXPOSURE LIMIT VALUES (TLV)

AGCIH 2013	Year	TLV-TWA		TLV-STEL- Ceiling value		Remarks
		ppm	mg/m3	ppm	mg/m3	
Hydrocarbons C9-C12 (aromatics 2-25%)		100.	-	-	-	
1,2-benzisothiazol-3(2H)-one		-	0.10	-	0.060	Recommended
Mixture CIT EC 247-500-7 MIT EC 220-239-6 (3:1)		-	0.080	-	0.23	Recommended
Mineral oil	1999		5.0		10.	Mist

TLV - Threshold Limit Value, TWA - Time Weighted Average, STEL - Short Term Exposure Limit.

BIOLOGICAL LIMIT VALUES:

Not established

DERIVED NO-EFFECT LEVEL (DNEL):

Derived no-effect level (DNEL) is a level of exposure that is considered safe, derived from toxicity data according to specific guidances included in REACH. DNEL values may differ from a occupational exposure limit (OEL) for the same chemical. OEL values may come recommended by a particular company, a government regulatory agency or an organization of experts. Although considered protective of health, the OEL values are derived by a process different of REACH.

Derived no-effect level, workers:

Not applicable (product for consumers use).

Derived no-effect level, general population:

- Systemic effects, acute and chronic:

Hydrocarbons C9-C12 (aromatics 2-25%)
1,2-benzisothiazol-3(2H)-one
Mixture CIT EC 247-500-7 MIT EC 220-239-6 (3:1)

DNEL Inhalation

mg/m3
s/r (a) 71.0 (c)
- (a) - (c)
- (a) - (c)

DNEL Cutaneous

mg/kg bw/d
s/r (a) 26.0 (c)
- (a) - (c)
- (a) - (c)

DNEL Oral

mg/kg bw/d
s/r (a) 26.0 (c)
- (a) - (c)
- (a) - (c)

Derived no-effect level, general population:

- Local effects, acute and chronic:

Hydrocarbons C9-C12 (aromatics 2-25%)
1,2-benzisothiazol-3(2H)-one
Mixture CIT EC 247-500-7 MIT EC 220-239-6 (3:1)

DNEL Inhalation

mg/m3
s/r (a) s/r (c)
- (a) - (c)
- (a) - (c)

DNEL Cutaneous

mg/cm2
s/r (a) s/r (c)
- (a) - (c)
- (a) - (c)

DNEL Eyes

mg/cm2
- (a) - (c)
- (a) - (c)
- (a) - (c)

(a) - Acute, short-term exposure, (c) - Chronic, long-term or repeated exposure.

(-) - DNEL not available (without data of registration REACH).

s/r - DNEL not derived (not identified hazard).

PREDICTED NO-EFFECT CONCENTRATION (PNEC):

Predicted no-effect concentration, aquatic organisms:

- Fresh water, marine water and intermittent release:
Hydrocarbons C9-C12 (aromatics 2-25%)
1,2-benzisothiazol-3(2H)-one
Mixture CIT EC 247-500-7 MIT EC 220-239-6 (3:1)

PNEC Fresh water

mg/l
uvcb
-
-

PNEC Marine

mg/l
uvcb
-
-

PNEC Intermittent

mg/l
uvcb
-
-

- Wastewater treatment plants (STP) and sediments in fresh- and marine water:

Hydrocarbons C9-C12 (aromatics 2-25%)
1,2-benzisothiazol-3(2H)-one
Mixture CIT EC 247-500-7 MIT EC 220-239-6 (3:1)

PNEC STP

mg/l
uvcb
-
-

PNEC Sediments

mg/kg dry weight
uvcb
-
-

PNEC Sediments

mg/kg dry weight
uvcb
-
-

Predicted no-effect concentration, terrestrial organisms:

- Air, soil and effects for predators and humans:
Hydrocarbons C9-C12 (aromatics 2-25%)
1,2-benzisothiazol-3(2H)-one
Mixture CIT EC 247-500-7 MIT EC 220-239-6 (3:1)

PNEC Air

mg/m3
uvcb
-
-

PNEC Soil

mg/kg dry weight
uvcb
-
-

PNEC Oral

mg/kg bw/d
uvcb
-
-

(-) - PNEC not available (without data of registration REACH).

uvcb - The substance has an unknown or variable composition (UVCB). The conventional methods to derive the PNEC are not appropriate and it is not possible to identify a single PNEC representative for these substances, and therefore not used in calculations for risk assessment.

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8.2

EXPOSURE CONTROLS:

ENGINEERING MEASURES:



Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction.

Protection of respiratory system: Avoid the inhalation of vapours.

Protection of eyes and face: It is recommended to dispose of water taps or sources with clean water close to the working area.

Protection of hands and skin: It is recommended to dispose of water taps or sources with clean water close to the working area. Barrier creams may help to protect the exposed areas of the skin. Barrier creams should not be applied once exposure has occurred.

OCUPATIONAL EXPOSURE CONTROLS: Directive 89/686/EEC~96/58/EC:

As a general measure on prevention and safety in the work place, we recommend the use of a basic personal protection equipment (PPE), with the corresponding EC marking. For more information on personal protective equipment (storage, use, cleaning, maintenance, type and characteristics of the PPE, protection class, marking, category, CEN norm, etc.), you should consult the informative brochures provided by the manufacturers of PPE.

Mask:

No, unless the inhalation of mists is to be avoided.

Goggles:



Safety goggles designed to protect against liquid splashes, with suitable lateral protection (EN166). Clean daily and disinfect at regular intervals in accordance with the instructions of the manufacturer.

Face shield:

No.

Gloves:



Oil-resistant gloves (EN374). When it can be a repeated or prolonged contact, it is recommended to use gloves with a protection level 5 or higher, with a breakthrough time >240 min. When you only expects a short contact, it is recommended to use gloves with a protection level 2 or higher, with a breakthrough time >30 min. The breakthrough time of the selected glove material should be in accordance with the pretended period of use. There are several factors (for example, temperature), they do in practice the period of use of a protective gloves resistant against chemicals is clearly lower than the established standard EN374. Due to the wide variety of circumstances and possibilities, we must have in mind the manual of instructions from manufacturers of gloves. The gloves should be immediately replaced when any sign of degradation is noted.

Boots:

No.

Apron:

No.

Clothing:



Suitable work clothes which avoid contact with the product should be worn. Do not use contaminated clothing or shoes. Wash contaminated work clothes before wearing them again.

Thermal hazards:

Not applicable (the product is handled at room temperature).

ENVIRONMENTAL EXPOSURE CONTROLS:

Avoid any spillage in the environment. Avoid any release into the atmosphere.

Spills on the soil: Prevent contamination of soil.

Spills in water: Important spills may form a film on the surface of the water which prevents oxygenation of the same, thus harming aquatic organisms. May cause long-term adverse effects on the aquatic environment. Do not allow to escape into drains, sewers or water courses.

Emissions to the atmosphere: Because of volatility, emissions to the atmosphere while handling and use may result. Avoid any release into the atmosphere.

- VOC (industrial installations): If this product is used in an industrial installation, it must be verified if it is applicable the Directive 1999/13/EC, on the limitation of emissions of volatile compounds due to the use of organic solvents in certain activities and installations:
Solvents : 1.5% Weight , VOC (supply) : 1.5% Weight , VOC : 1.3% C (expressed as carbon) , Molecular weight (average) : 146.0 , Number C atoms (average) : 10.3.

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SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES:

Appearance
 - Physical state : Liquid.
 - Colour : White.
 - Odour : Characteristic
 - Odour threshold : Not available (mixture).
pH-value
 - pH : 8.5 ± 0.5 at 20°C
Change of state
 - Melting point : -6. °C
 - Initial boiling point : > 100. °C at 760 mmHg
Density
 - Relative density : 1.6 ± 0.05 # at 20/4°C Relative water
Stability
 - Decomposition temperature : 350. °C
Viscosity:
 - Dynamic viscosity : 4000. ± 2000. cps 20°C
 - Kinematic viscosity : 850. mm2/s at 40°C
Volatility:
 - Vapour pressure : Not available
Solubility(ies)
 - Solubility in water: : Not miscible
 - Solubility in oils and fats: : Not available
Flammability:
 - Flash point : 115. °C
 - Autoignition temperature : Not applicable (do not support combustion).
Explosive properties:
 Vapours can form explosive mixtures with air and are able to flame up or explode in presence of an ignition source.
Oxidizing properties:
 Not classified as oxidizing product.

9.2 OTHER INFORMATION:

- VOC (supply) : 1.5 % Weight
 - VOC (supply) : 24.0 g/l

The values indicated do not always coincide with product specifications. The data for the product specifications can be found in the technical data sheet of the same. For additional information concerning physical and chemical properties related to safety and environment, see sections 7 and 12.

SECTION 10 : STABILITY AND REACTIVITY

10.1 REACTIVITY:

Corrosivity to metals: It is not corrosive to metals.
Pyrophorical properties: It is not pyrophoric.

10.2 CHEMICAL STABILITY:

Stable under recommended storage and handling conditions.

10.3 POSSIBILITY OF HAZARDOUS REACTIONS:

Possible dangerous reaction with oxidizing agents.

10.4 CONDITIONS TO AVOID:

Heat: Keep away from sources of heat.
Light: If possible, avoid direct contact with sunlight.
Air: Not applicable.
Humidity: Avoid extreme humidity conditions.
Pressure: Not applicable.
Shock: Not applicable.

10.5 INCOMPATIBLE MATERIALS:

Keep away from oxidizing agents, from strongly alkaline and strongly acid materials.

10.6 HAZARDOUS DECOMPOSITION PRODUCTS:

As consequence of thermal decomposition, hazardous products may be produced: carbon monoxide.

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SECTION 11 : TOXICOLOGICAL INFORMATION

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS:

ACUTE TOXICITY:

Dose and lethal concentrations :

- LD50 Oral Rats : > 5000. mg/kg
- LD50 Cutaneous Rabbits : > 2000. mg/kg

No observed adverse effect level

Not available

Lowest observed adverse effect level

Not available

INFORMATION ON LIKELY ROUTES OF EXPOSURE: Acute toxicity:

Routes of exposure	Acute toxicity	Cat.	Main effects, acute and/or delayed
<u>Inhalation:</u> Not classified	ATE > 5000 mg/m3	-	Not classified as a product with acute toxicity if inhaled (based on available data, the classification criteria are not met).
<u>Skin:</u> Not classified	ATE > 2000 mg/kg	-	Not classified as a product with acute toxicity in contact with skin (based on available data, the classification criteria are not met).
<u>Eyes:</u> Not classified	Not available	-	Not classified as a product with acute toxicity by eye contact (lack of data).
<u>Ingestion:</u> Not classified	ATE > 5000 mg/kg	-	Not classified as a product with acute toxicity if swallowed (based on available data, the classification criteria are not met).

CORROSION / IRRITATION / SENSITISATION :

Danger class	Target organs	Cat.	Main effects, acute and/or delayed
<u>Respiratory corrosion/irritation:</u> Not classified	-	-	Not classified as a product corrosive or irritant by inhalation (based on available data, the classification criteria are not met).
<u>Skin corrosion/irritation:</u> Not classified	-	-	Not classified as a product corrosive or irritant in contact with skin (based on available data, the classification criteria are not met).
<u>Serious eye damage/irritation:</u> Not classified	-	-	Not classified as a product corrosive or irritant in contact with eyes (based on available data, the classification criteria are not met).
<u>Respiratory sensitisation:</u> Not classified	-	-	Not classified as a product sensitising by inhalation (based on available data, the classification criteria are not met).
<u>Skin sensitisation:</u> Not classified	-	-	Not classified as a product sensitising by skin contact (based on available data, the classification criteria are not met).

· Contains 1,2-benzisothiazol-3(2H)-one, mixture CIT EC 247-500-7 MIT EC 220-239-6 (3:1). May produce an allergic reaction.

ASPIRATION HAZARD:

Danger class	Target organs	Cat.	Main effects, acute and/or delayed
<u>Aspiration hazard:</u> Not classified	-	-	Not classified as a product hazardous by aspiration (based on available data, the classification criteria are not met).

SPECIFIC TARGET ORGANS TOXICITY (STOT): Single exposure (SE) and/or Repeated exposure (RE):

Not classified as a dangerous product for target organs (based on available data, the classification criteria are not met).

CMR EFFECTS:

Carcinogenic effects: Is not considered as a carcinogenic product.

Genotoxicity: Is not considered as a mutagenic product.

Toxicity for reproduction: Do not harm fertility. Do not harm the fetus developing.

Effects via lactation: Not classified as a hazardous product for children breast-fed.

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DELAYED AND IMMEDIATE EFFECTS AS WELL AS CHRONIC EFFECTS FROM SHORT AND LONG-TERM EXPOSURE:

Routes of exposure: May be absorbed by inhalation of vapour, through the skin and by ingestion.
Short-term exposure: Exposure to solvent vapour concentrations in excess of the stated occupational exposure limit, may result in adverse health effects, such as mucous membrane and respiratory system irritation and adverse effects on kidneys, liver and central nervous system. Liquid splashes in the eyes may cause irritation and reversible damage. If swallowed, may cause irritation of the throat; other effects may be the same as described in the exposure to vapours.
Long-term or repeated exposure: Repeated or prolonged contact may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

INTERACTIVE EFFECTS:

Not available.

INFORMATION ABOUT TOXICOCINETICS, METABOLISM AND DISTRIBUTION:

Dermal absorption: Not available.
Basic toxicokinetics: Not available.

ADDITIONAL INFORMATION:

May slightly irritate the eyes temporarily. Inhalation of sprayed mist or particles in suspension may irritate the respiratory system. If swallowed, may cause gastrointestinal problems. Repeated or prolonged contact may cause cutaneous complaints.

SECTION 12 : ECOLOGICAL INFORMATION

No experimental ecotoxicological data on the preparation as such is available. The ecotoxicological classification for these mixture has been carried out by using the conventional calculation method of the Regulation (EC) No. 1272/2008~487/2013 (CLP).

12.1 TOXICITY:

Acute toxicity in aquatic environment for individual ingredients :

Hydrocarbons C9-C12 (aromatics 2-25%)
1,2-benzisothiazol-3(2H)-one
Mixture CIT EC 247-500-7 MIT EC 220-239-6 (3:1)

CL50 (OECD 203)
mg/l.96hours

> 10. Fishes
1.2 Fishes
0.19 Fishes

CE50 (OECD 202)
mg/l.48hours

> 10. Daphnia
0.85 Daphnia
0.16 Daphnia

CE50 (OECD 201)
mg/l.72hours

4.6 Algae
0.37 Algae
0.018 Algae

No observed effect concentration

Not available

Lowest observed effect concentration

Not available

12.2 PERSISTENCE AND DEGRADABILITY:

Not available.

12.3 BIOACCUMULATIVE POTENTIAL:

Not available.

Bioaccumulation

for individual ingredients :
Hydrocarbons C9-C12 (aromatics 2-25%)
1,2-benzisothiazol-3(2H)-one
Mixture CIT EC 247-500-7 MIT EC 220-239-6 (3:1)

logPow

0.640
-0.830

BCF
L/kg

3.2 (calculated)
3.2 (calculated)

Potential

Not available
Unlikely, low
No bioaccumulable

12.4 MOBILITY IN SOIL:

Not available.

12.5 RESULTS OF PBT AND VPVB ASSESMENT: Annex XIII of Regulation (EC) no. 1907/2006:

Does not contain substances that fulfill the PBT/vPvB criteria.

12.6 OTHER ADVERSE EFFECTS:

Ozone depletion potential: Not available.
Photochemical ozone creation potential: Not available.
Earth global warming potential: Not available.
Endocrine disrupting potential: Not available.

SECTION 13 : DISPOSAL CONSIDERATIONS

13.1 WASTE TREATMENT METHODS: Directive 2008/98/EC~Regulation (EU) no. 1357/2014:

Take all necessary measures to prevent the production of waste whenever possible. Analyse possible methods for revaluation or recycling. Do not discharge into drains or the environment, dispose of at an authorised waste collection point. Waste should be handled and disposed of in accordance with current local and national regulations. For exposure controls and personal protection measures, see section 8.

Disposal of empty containers: Directive 94/62/EC~2005/20/EC, Decision 2000/532/EC~2014/955/EU:

Emptied containers and packaging should be disposed of in accordance with currently local and national regulations. The classification of packaging as hazardous waste will depend on the degree of emptying of the same, being the holder of the residue responsible for their classification, in accordance with Chapter 15 01 of Decision 2000/532/EC, and forwarding to the appropriate final destination. With contaminated containers and packaging, adopt the same measures as for the product in itself.

Procedures for neutralising or destroying the product:

Authorised landfill in accordance with local regulations.

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SECTION 14 : TRANSPORT INFORMATION

14.1	<u>UN NUMBER:</u> Not applicable
14.2	<u>UN PROPER SHIPPING NAME:</u> Not applicable
14.3 14.4	<u>TRANSPORT HAZARD CLASS(ES) AND PACKING GROUP:</u> <u>Transport by road (ADR 2015) and Transport by rail (RID 2015):</u> Not reglamented <u>Transport by sea (IMDG 36-12):</u> Not reglamented <u>Transport by air (ICAO/IATA 2014):</u> Not reglamented <u>Transport by inland waterways (ADN):</u> Free.
14.5	<u>ENVIRONMENTAL HAZARDS:</u> Not applicable (not classified as hazardous for the environment).
14.6	<u>SPECIAL PRECAUTIONS FOR USER:</u> Ensure that persons transporting the product know what to do in case of accident or spill. Always transport in closed containers that are in a vertical position and sure. Ensure adequate ventilation.
14.7	<u>TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE:</u> Not applicable.

SECTION 15 : REGULATORY INFORMATION

15.1	<u>EU SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC:</u> The regulations applicable to this product generally are listed throughout this material safety data sheet. <u>Restrictions on manufacture, placing on market and use:</u> See section 1.2 <u>Control of the risks inherent in major accidents (Seveso III):</u> See section 7.2 <u>Tactile warning of danger:</u> Not applicable (the classification criteria are not met). <u>Child safety protection:</u> Not applicable (the classification criteria are not met). <u>OTHER REGULATIONS:</u> Not available
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15.2	<u>CHEMICAL SAFETY ASSESSMENT:</u> For this mixture has not been carried out a chemical safety assessment.
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RAYEN JOINTS WHITENER
Code: 930076/002

SECTION 16 : OTHER INFORMATION

16.1

TEXT OF THE PHRASES AND NOTES REFERENCED IN SECTIONS 2 AND/OR 3:

Hazard statements according the Regulation (EC) No. 1272/2008~487/2013 (CLP), Annex III:

H226 Flammable liquid and vapour. H304 May be fatal if swallowed and enters airways. H336 May cause drowsiness or dizziness. H411 Toxic to aquatic life with long lasting effects. EUH066 Repeated exposure may cause skin dryness or cracking. H372i Causes damage to organs through prolonged or repeated exposure if inhaled.

ADVICES ON ANY TRAINING APPROPRIATE FOR WORKERS:

It is recommended for all staff that will handle this product to carry out a basic training in occupational risk and prevention, in order to provide understanding and interpretation of material safety data sheets and labelling of products as well.

MAIN LITERATURE REFERENCES AND SOURCES FOR DATA:

- European Chemicals Agency: ECHA, <http://echa.europa.eu/>
- Access to European Union Law, <http://eur-lex.europa.eu/>
- Industrial Solvents Handbook, Ibert Mellan (Noyes Data Co., 1970).
- Threshold Limit Values, (AGCIH, 2013).

ABBREVIATIONS AND ACRONYMS:

List of abbreviations and acronyms that can be used (but not necessarily used) in this material safety data sheet:

- REACH: Regulation concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals.
- DSD: Dangerous Substances Directive.
- DPD: Dangerous Preparations Directive.
- GHS: Globally Harmonized System of Classification and Labelling of Chemicals of the United Nations.
- CLP: European regulation on Classification, Labelling and Packaging of substances and chemical mixtures.
- EINECS: European Inventory of Existing Commercial Chemical Substances.
- ELINCS: European List of Notified Chemical Substances.
- CAS: Chemical Abstracts Service (Division of the American Chemical Society).
- UVCB: Substances of Unknown or Variable composition, complex reaction products or biological materials).
- SVHC: Substances of Very High Concern.
- PBT: Persistent, bioaccumulable and toxic substances.
- vPvB: Very persistent and very bioaccumulable substances.
- VOC: Volatile Organic Compounds.
- DNEL: Derived No-Effect Level (REACH).
- PNEC: Predicted No-Effect Concentration (REACH).
- LD50: Letal dose, 50 percent.
- LC50: Letal concentration, 50 percent.
- UN: United Nations Organisation.
- ADR: European agreement concerning the international carriage of dangerous goods by road.
- RID: Regulations concerning the international transport of dangerous goods by rail.
- IMDG: International Maritime code for Dangerous Goods.
- IATA: International Air Transport Association.
- ICAO: International Civil Aviation Organization.

MATERIAL SAFETY DATA SHEET REGULATIONS:

Material Safety Data Sheet in accordance with Article 31 of Regulation (EC) No. 1907/2006 (REACH) and Annex of Regulation (EU) No. 2015/830.

HISTORY:

Revision:

Version: 1 20/04/2016
Version: 2 20/04/2016

Modifications with respect to the previous Material Safety Data Sheet:

The possible legislative, contextual, numerical, methodological and normative changes with respect to the previous version are highlighted in this Material Safety Data Sheet by a mark # in red and italic.

The information of this Material Safety Data Sheet, is based on the present state of knowledge and on current UE and national laws, as the users' working conditions are beyond our knowledge and control. The product is not to be used for other purposes than those specified, without first obtaining written handling instruction. It is always the responsibility of the user to take all necessary steps in order to fulfil the demand laid down in the local rules and legislation. The information in this Material Safety Data Sheet is meant as a description of the safety requirements of the product and it is not to be considered as a guarantee of the product's properties.