

TRANSPRENE 531

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

Identification of the substance or mixture

Product name : TRANSPRENE 531
Code : 30503880/1
Product type : Liquid.
Use of the substance/mixture : Adhesive. neoprene
Supplier : BOSTIK SA
 253 Avenue du Président Wilson
 93211 La Plaine Saint Denis
 FRANCE
Telephone no. : + 33 (0) 1 55 99 90 00
e-mail address of person responsible for this SDS : sds.box-fr@bostik.com
Emergency telephone number ORFILA : + 33 (0) 1 45 42 59 59

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to Directive 1999/45/EC [DPD]

The product is classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification : F; R11
 Xi; R36/38
 R67
 N; R51/53

Physical/chemical hazards : Highly flammable.

Human health hazards : Irritating to eyes and skin. Vapours may cause drowsiness and dizziness.

Environmental hazards : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

See Section 16 for the full text of the R phrases or H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard symbol or symbols :



Indication of danger : Highly flammable, Irritant, Dangerous for the environment

Risk phrases :

R11- Highly flammable.
 R36/38- Irritating to eyes and skin.
 R67- Vapours may cause drowsiness and dizziness.
 R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases :

S9- Keep container in a well-ventilated place.
 S16- Keep away from sources of ignition - No smoking.
 S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 S29- Do not empty into drains.
 S33- Take precautionary measures against static discharges.
 S46- If swallowed, seek medical advice immediately and show this container or label.

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2. HAZARDS IDENTIFICATION

Contains : butanone
Naphtha (petroleum), hydrotreated light

Supplemental label elements : Contains rosin. May produce an allergic reaction.

Special packaging requirements

Containers to be fitted with child-resistant fastenings : Not applicable.

Tactile warning of danger : Not applicable.

2.3 Other hazards

Other hazards which do not result in classification : None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/preparation : Mixture

Nature of material : Adhesive.

Ingredient name	Identifiers	%	Classification		Type
			67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	
butanone	REACH #: 01-2119457290-43 EC: 201-159-0 CAS: 78-93-3 Index: 606-002-00-3	20 - 50	F; R11 Xi; R36 R66, R67	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	[1] [2]
Naphtha (petroleum), hydrotreated light	REACH #: 01-2119475514-35 EC: 265-151-9 Index: 649-328-00-1	20 - 50	F; R11 Xn; R65 Xi; R38 R67 N; R51/53 F; R11	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 Flam. Liq. 2, H225	[1] [2]
Solvent naphtha (petroleum), hydrotreated light naphthenic	REACH #: 012119486291-36 EC: 295-529-9 Index: 649-341-00-2	10 - 20	Xn; R65 R66, R67 N; R51/53 F; R11	STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 Flam. Liq. 2, H225	[1]
acetone	REACH #: 01-2119471330-49 EC: 200-662-2 CAS: 67-64-1 Index: 606-001-00-8	10 - 20	F; R11 Xi; R36 R66, R67	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	[1] [2]
ethyl acetate	REACH #: 01-2119475103-46 EC: 205-500-4 CAS: 141-78-6 Index: 607-022-00-5	1 - 10	F; R11 Xi; R36 R66, R67	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	[1] [2]
rosin	EC: 232-475-7 CAS: 8050-09-7 Index: 650-015-00-7	< 1	R43	Skin Sens. 1, H317	[1] [2]
zinc oxide	EC: 215-222-5 CAS: 1314-13-2	< 0.1	N; R50	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	[1] [2]
			See Section 16 for the full text of the R-phrases declared above.	See Section 16 for the full text of the H statements declared above.	

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3. COMPOSITION/INFORMATION ON INGREDIENTS

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs or vPvBs or have been assigned a workplace exposure limit and hence require reporting in this section.

Type

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

Occupational exposure limits, if available, are listed in Section 8.

4. FIRST AID MEASURES

- Inhalation** : Move exposed person to fresh air. Get medical attention if adverse health effects persist or are severe. Maintain an open airway. If unconscious, place in recovery position and seek medical advice. Get medical attention if symptoms appear.
- Ingestion** : Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.
- Skin contact** : Wash with soap and water. Continue to rinse for at least 10 minutes. In case of chemical burns, get medical attention as soon as possible. In the event of any complaints or symptoms, avoid further exposure. Get medical attention if symptoms occur.
- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Seek immediate medical attention/advice.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
- Notes to physician** : No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

See Section 11 for more detailed information on health effects and symptoms.

5. FIRE-FIGHTING MEASURES

- Suitable** : Use dry chemical, CO₂, water spray (fog) or foam.
- Not suitable** : Do not use water jet.
In a fire or if heated, a pressure increase will occur and the container may burst or explode. Runoff to sewer may create fire or explosion hazard.
Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
halogenated compounds
Dust and fumes
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions** : Do not touch or walk through spilled material. Provide adequate ventilation. Shut off all ignition sources. No flares, smoking or flames in hazard area. Keep unnecessary and unprotected personnel from entering. Put on appropriate personal protective equipment (see Section 8).
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

6. ACCIDENTAL RELEASE MEASURES

- Small spill** : Stop leak if without risk. Move containers from spill area. Absorb with an inert material and place in an appropriate waste disposal container. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor.
- Large spill** : Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, basements or confined areas. Absorb with an inert material and transfer the spilt material and absorbent to an appropriate waste disposal container. Contaminated absorbent material may pose the same hazard as the spilt product. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor.

7. HANDLING AND STORAGE

- Handling** : Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Do not breathe vapour or mist. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid release to the environment. Refer to special instructions/safety data sheet. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Do not reuse product container.
- Storage** : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers.
Store between the following temperatures: 5°C and 30°C

Packaging materials

- Recommended** : Use original container.
- Danish fire class** : I-1
- Austria - VbF class** : A I
Very dangerous flammable liquid.
- Czech Republic - Storage code** : I

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limit values

Ingredient name	Occupational exposure limits
butanone	Ministère du travail (France, 10/2007). Absorbed through skin. Notes: regulatory binding exposure limits, decreete n° 2007-1539 of 26/10/2007, pursuant to article R. 4412-149 of the Labour Act . STEL: 900 mg/m ³ 15 minutes. STEL: 300 ppm 15 minutes. TWA: 600 mg/m ³ 8 hours. TWA: 200 ppm 8 hours.
Naphtha (petroleum), hydrotreated light	EU OEL (Europe, 11/2004). STEL: 1000 mg/m ³ 15 minutes. TWA: 1500 mg/m ³ 8 hours. Form: All forms
acetone	Ministère du travail (France, 10/2007). Notes: regulatory binding exposure limits, decreete n° 2007-1539 of 26/10/2007, pursuant to article R. 4412-149 of the Labour Act . TWA: 1210 mg/m ³ 8 hours. TWA: 500 ppm 8 hours. STEL: 2420 mg/m ³ 15 minutes. STEL: 1000 ppm 15 minutes.
ethyl acetate	Ministère du travail (France, 10/2007). Notes: indicative exposure limits as published in Circulars between 1982 and 1996.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

rosin	TWA: 1400 mg/m ³ 8 hours. TWA: 400 ppm 8 hours. INRS (France, 12/2007). Notes: indicative exposure limits
zinc oxide	TWA: 0,1 mg/m ³ 8 hours. INRS (France, 6/2006). Notes: indicative exposure limits TWA: 5 mg/m ³ 8 hours. Form: Fume TWA: 10 mg/m ³ 8 hours.

- Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.
- Occupational exposure controls** : Use only with adequate ventilation. Use local exhaust ventilation or handle in a ventilated enclosure. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Ensure that eyewash stations and safety showers are close to the workstation location. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.
- Respiratory protection** : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.
- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
- Eye protection** : Goggles, face shield or other full-face protection should be worn if there is a risk of direct exposure to aerosols or splashes or when material is handled hot.
- Skin protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Environmental exposure controls** : In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

9. PHYSICAL AND CHEMICAL PROPERTIES

General information

Appearance

- Physical state** : Liquid. [Viscous liquid.]
- Colour** : Yellow. [Light]
- Odour** : Hydrocarbon.

Important health, safety and environmental information

- Boiling point** : 56°C (132,8°F)
- Flash point** : Closed cup: -17°C (1,4°F)
- Explosion limits** : Lower: 1,1%
Upper: 13%
- Vapour pressure** : <110 kPa (<825 mm Hg) [room temperature]
- Density** : 0,83 to 0,87 g/cm³ [23°C (73,4°F)]
- Solubility** : Easily soluble in the following materials: acetone.
Insoluble in the following materials: cold water and hot water.

10. STABILITY AND REACTIVITY

- Stability** : Stable under recommended storage and handling conditions (see Section 7).
- Conditions to avoid** : Avoid all possible sources of ignition (spark or flame). Keep away from heat and direct sunlight. Avoid release to the environment. Refer to special instructions/safety data sheet.
- Materials to avoid** : Highly reactive or incompatible with the following materials:
oxidizing materials

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10. STABILITY AND REACTIVITY

Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. TOXICOLOGICAL INFORMATION

Potential acute health effects

Inhalation : Vapours may cause drowsiness and dizziness.
Ingestion : Irritating to mouth, throat and stomach.
Skin contact : Irritating to skin.
Eye contact : Irritating to eyes.

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
butanone	LD50 Dermal	Rabbit	6480 mg/kg	-
	LD50 Oral	Rat	2737 mg/kg	-
acetone	LD50 Oral	Rat	5800 mg/kg	-
ethyl acetate	LD50 Oral	Rat	5620 mg/kg	-

Conclusion/Summary : Not available.

Potential chronic health effects

Chronic toxicity

Conclusion/Summary : Not available.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
butanone	Skin - Mild irritant	Rabbit	-	24 hours 14 milligrams	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 milligrams	-
acetone	Eyes - Mild irritant	Human	-	186300 parts per million	-
	Eyes - Mild irritant	Rabbit	-	10 microliters	-
	Eyes - Moderate irritant	Rabbit	-	24 hours 20 milligrams	-
	Eyes - Severe irritant	Rabbit	-	20 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	395 milligrams	-

Conclusion/Summary : Not available.

Sensitiser

Conclusion/Summary : Not available.

Carcinogenicity

Conclusion/Summary : Not available.

Mutagenicity

Conclusion/Summary : Not available.

Teratogenicity

Conclusion/Summary : Not available.

Reproductive toxicity

Conclusion/Summary : Not available.

Chronic effects : No known significant effects or critical hazards.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Teratogenicity : No known significant effects or critical hazards.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

Over-exposure signs/symptoms

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11. TOXICOLOGICAL INFORMATION

Inhalation	: Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo
Ingestion	: No specific data.
Skin	: Adverse symptoms may include the following: irritation redness
Eyes	: Adverse symptoms may include the following: irritation watering redness
Target organs	: Contains material which may cause damage to the following organs: blood, kidneys, lungs, liver, peripheral nervous system, upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea.

12. ECOLOGICAL INFORMATION

Environmental effects : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Aquatic ecotoxicity

Product/ingredient name	Test	Result	Species	Exposure
butanone	-	Acute EC50 >500000 µg/l Marine water	Algae - Diatom - Skeletonema costatum	96 hours
	-	Acute EC50 5091000 to 6440000 µg/l Fresh water	Daphnia - Water flea - Daphnia magna - Larvae	48 hours
	-	Acute LC50 5600000 µg/l Fresh water	Fish - Western mosquitofish - Gambusia affinis - Adult	96 hours
acetone	-	Acute EC50 20,565 mg/l Marine water	Algae - Green algae - Ulva pertusa	96 hours
	-	Acute LC50 6000000 µg/l Fresh water	Crustaceans - Scud - Gammarus pulex	48 hours
	-	Acute LC50 10000 µg/l Fresh water	Daphnia - Water flea - Daphnia magna	48 hours
	-	Acute LC50 5600 ppm Fresh water	Fish - Guppy - Poecilia reticulata	96 hours
	-	Chronic NOEC 4,95 mg/l Marine water	Algae - Green algae - Ulva pertusa	96 hours
	-	Chronic NOEC 0,1 ml/L Fresh water	Daphnia - Water flea - Daphnia magna - Neonate	21 days
ethyl acetate	-	Acute EC50 2500000 µg/l Fresh water	Algae - Green algae - Selenastrum sp.	96 hours
	-	Acute LC50 750000 µg/l Fresh water	Crustaceans - Scud - Gammarus pulex	48 hours
	-	Acute LC50 212500 to 225420 µg/l Fresh water	Fish - Indian catfish - Heteropneustes fossilis	96 hours
	-	Chronic NOEC 2400 µg/l Fresh water	Daphnia - Water flea - Daphnia magna	21 days
	-	Chronic NOEC 75,6 mg/l Fresh water	Fish - Fathead minnow - Pimephales promelas - Embryo	32 days
	-	Acute LC50 98 µg/l Fresh water	Daphnia - Water flea - Daphnia magna	48 hours
zinc oxide	-	Acute LC50 2246000 µg/l Fresh water	Fish - Fathead minnow - Pimephales promelas	96 hours

Conclusion/Summary : Not available.

Other ecological information

Biodegradability

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12. ECOLOGICAL INFORMATION

Conclusion/Summary : Not available.

Bioaccumulative potential

<u>Product/ingredient name</u>	<u>LogP_{ow}</u>	<u>BCF</u>	<u>Potential</u>
butanone	0,29	-	low
acetone	-0,24	-	low
ethyl acetate	0,73	-	low

Other adverse effects : No known significant effects or critical hazards.

AOX : The product contains organically bound halogens and can contribute to the AOX value in waste water.

PBT : Not applicable.
P: Not available. B: Not available. T: Not available.

vPvB : Not applicable.

13. DISPOSAL CONSIDERATIONS





Hazardous waste : Yes.

European waste catalogue (EWC)

<u>Waste code</u>	<u>Waste designation</u>
08 04 09*	waste adhesives and sealants containing organic solvents or other dangerous substances

14. TRANSPORT INFORMATION

International transport regulations

<u>Regulatory information</u>	<u>UN number</u>	<u>Proper shipping name</u>	<u>Classes</u>	<u>PG*</u>	<u>Label</u>	<u>Additional information</u>
ADR/RID Class	1133	ADHESIVES, containing flammable liquid	3	III		<u>Hazard identification number</u> 33 <u>Limited quantity</u> LQ7 <u>Special provisions</u> 640H <u>Tunnel code</u> (D/E)
ADN Class	1133	ADHESIVES, containing flammable liquid	3	III		-
IMDG Class	1133	ADHESIVES, containing flammable liquid	3	III		<u>Emergency schedules (EmS)</u> F-E, S-D
IATA Class	1133	ADHESIVES, containing flammable liquid	3	III		<u>Passenger and Cargo Aircraft</u> Quantity limitation: 60 L <u>Cargo Aircraft Only</u> Quantity limitation: 220 L

PG* : Packing group

15. REGULATORY INFORMATION

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

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Substances of very high concern

None of the components are listed. (REACH Article no. 33)

Other EU regulations

Product use	:	Industrial applications, Professional applications.	
Europe inventory	:	All components are listed or exempted.	
Social Security Code, Articles L 461-1 to L 461-7	:	butanone	RG 84
		Naphtha (petroleum), hydrotreated light acetone	4 bis RG 84
		ethyl acetate	84
		rosin	65, 66
Reinforced medical surveillance	:	Act of July 11, 1977 determining the list of activities which require reinforced medical surveillance: not applicable	

Other regulations

United States

United States inventory (TSCA 8b) : All components are listed or exempted.

California Prop. 65

Ingredient name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
No listed substance				

Canada

Canada inventory : Not determined.

International regulations

International lists :

- Australia inventory (AICS)**: Not determined.
- China inventory (IECSC)**: Not determined.
- Japan inventory**: Not determined.
- Korea inventory**: Not determined.
- Malaysia Inventory (EHS Register)**: Not determined.
- New Zealand Inventory of Chemicals (NZIoC)**: Not determined.
- Philippines inventory (PICCS)**: Not determined.
- Taiwan inventory (CSNN)**: Not determined.

16. OTHER INFORMATION

📄 Indicates information that has changed from previously issued version.

Abbreviations and acronyms :

- ATE = Acute Toxicity Estimate
- CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
- DNEL = Derived No Effect Level
- EUH statement = CLP-specific Hazard statement
- PNEC = Predicted No Effect Concentration
- RRN = REACH Registration Number

Full text of abbreviated H statements :

- H225 Highly flammable liquid and vapour.
- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H336 May cause drowsiness or dizziness.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- H411 Toxic to aquatic life with long lasting effects.

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16. OTHER INFORMATION

Full text of classifications [CLP/GHS] : Aquatic Acute 1, H400 AQUATIC TOXICITY (ACUTE) - Category 1
 Aquatic Chronic 1, H410 AQUATIC TOXICITY (CHRONIC) - Category 1
 Aquatic Chronic 2, H411 AQUATIC TOXICITY (CHRONIC) - Category 2
 Asp. Tox. 1, H304 ASPIRATION HAZARD - Category 1
 Eye Irrit. 2, H319 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2
 Flam. Liq. 2, H225 FLAMMABLE LIQUIDS - Category 2
 Skin Irrit. 2, H315 SKIN CORROSION/IRRITATION - Category 2
 Skin Sens. 1, H317 SKIN SENSITIZATION - Category 1
 STOT SE 3, H336 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) [Narcotic effects] - Category 3

Full text of abbreviated R phrases : R11- Highly flammable.
 R65- Harmful: may cause lung damage if swallowed.
 R36- Irritating to eyes.
 R38- Irritating to skin.
 R36/38- Irritating to eyes and skin.
 R43- May cause sensitisation by skin contact.
 R66- Repeated exposure may cause skin dryness or cracking.
 R67- Vapours may cause drowsiness and dizziness.
 R50- Very toxic to aquatic organisms.
 R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Full text of classifications [DSD/DPD] : F - Highly flammable
 Xn - Harmful
 Xi - Irritant
 N - Dangerous for the environment

History

Date of printing : 24/10/2012.
Date of issue/Date of revision : 24/10/2012.
Date of previous issue : No previous validation.
Version : 1
Prepared by : Not available.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.