



Safety Data Sheet

Sadolin Outdoor Varnish - Satin

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 2015/830 - United Kingdom (UK)

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

1.1 Product identifier

Product name : Sadolin Outdoor Varnish - Satin
Product identity : 4034058
Product type : Paint.

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

Field of application : Decoration of timber surfaces. Applied by brush. See container for details.
Identified uses : Consumer applications.

1.3 Details of the supplier of the safety data sheet

Company details : Sadolin
Crown Paints
Crown House
Hollins Rd
Darwen
Lancs, BB3 0BG
Tel: 01254 704951
Fax: 01254 702678
www.crownpaint.co.uk
Date of issue : 1 September 2016
Date of previous issue : No previous validation.

1.4 Emergency telephone number

01254 704951 (08.00-17.00)
Contact Person:
Product SHE Information Manager
SHE@crownpaints.co.uk

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Flam. Liq. 3, H226 FLAMMABLE LIQUIDS - Category 3
Skin Sens. 1, H317 SKIN SENSITIZATION - Category 1

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

2.2 Label elements

Hazard pictograms :



Signal word : Warning
Hazard statements : H226 - Flammable liquid and vapour.
H317 - May cause an allergic skin reaction.

Precautionary statements :

General : Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.
Prevention : Wear protective gloves. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Response : IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical attention.
Storage : Keep cool.
Disposal : Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazardous ingredients : 2-butanone oxime
4,5-dichloro-2-n-octyl -4-isothiazolin-3-one
Supplemental label elements : Repeated exposure may cause skin dryness or cracking.

SECTION 2: Hazards identification**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.

SECTION 3: Composition/information on ingredients**3.2 Mixtures**

| Product/ingredient name | Identifiers | % | Regulation (EC) No. 1272/2008 [CLP] | Type |
|--|---|-----------|---|------|
| naphtha (petroleum), hydrotreated heavy | EC: 265-150-3 CAS: 64742-48-9 | ≥25 - ≤50 | Flam. Liq. 3, H226 Asp. Tox. 1, H304 EUH066 | [1] |
| 2-butanone oxime | REACH #: 01-2119539477-28 EC: 202-496-6 CAS: 96-29-7 Index: 616-014-00-0 | ≤0.3 | Acute Tox. 4, H312 Eye Dam. 1, H318 Skin Sens. 1, H317 Carc. 2, H351 | [1] |
| 4,5-dichloro-2-n-octyl -4-isothiazolin-3-one | EC: 264-843-8 CAS: 64359-81-5 | <0.1 | Acute Tox. 4, H302 Acute Tox. 4, H312 Acute Tox. 2, H330 Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 STOT SE 3, H335 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=1) See Section 16 for the full text of the H statements declared above. | [1] |

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 and hence require reporting in this section.

Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit, see section 8.

[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

[5] Substance of equivalent concern

SECTION 4: First aid measures**4.1 Description of first aid measures**

| | |
|------------------------------|---|
| General : | In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. |
| Eye contact : | Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. In all cases of doubt, or when symptoms persist, seek medical attention. |
| Inhalation : | Remove to fresh air. Keep person warm and at rest. If unconscious, place in recovery position and seek medical advice. |
| Skin contact : | Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners. |
| Ingestion : | If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do not induce vomiting unless directed to do so by medical personnel. Lower the head so that vomit will not re-enter the mouth and throat. |
| 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. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. |

4.2 Most important symptoms and effects, both acute and delayed**Potential acute health effects**

| | |
|----------------|---|
| Eye contact : | No known significant effects or critical hazards. |
| Inhalation : | No known significant effects or critical hazards. |
| Skin contact : | May cause an allergic skin reaction. |
| Ingestion : | No known significant effects or critical hazards. |

Over-exposure signs/symptoms

Eye contact : No specific data.

SECTION 4: First aid measures

| | |
|----------------|--|
| Inhalation : | No specific data. |
| Skin contact : | Adverse symptoms may include the following: irritation redness |
| Ingestion : | No specific data. |

4.3 Indication of any immediate medical attention and special treatment needed

| | |
|-----------------------|---|
| Notes to physician : | Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |
| Specific treatments : | No specific treatment. |

SECTION 5: Firefighting measures

5.1 Extinguishing media

| | |
|-----------------------|--|
| Extinguishing media : | Recommended: alcohol resistant foam, CO ₂ , powders, water spray. Not to be used : waterjet. |
|-----------------------|--|

5.2 Special hazards arising from the substance or mixture

| | |
|---|--|
| Hazards from the substance or mixture : | Flammable liquid and vapour. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard. |
|---|--|

| | |
|---------------------------------|---|
| Hazardous combustion products : | Decomposition products may include the following materials: carbon oxides |
|---------------------------------|---|

5.3 Advice for firefighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard. Cool closed containers exposed to fire with water. Do not release runoff from fire to drains or watercourses. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Exclude sources of ignition and be aware of explosion hazard. Ventilate the area. Avoid breathing vapour or mist. Refer to protective measures listed in sections 7 and 8. No action shall be taken involving any personal risk or without suitable training. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.

6.2 Environmental precautions

Avoid dispersal of spilt 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).

6.3 Methods and material for containment and cleaning up

Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Use spark-proof tools and explosion-proof equipment. Contaminated absorbent material may pose the same hazard as the spilt product.

6.4 Reference to other sections

See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

7.1 Precautions for safe 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. Remove contaminated clothing and protective equipment before entering eating areas. Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Empty containers retain product residue and can be hazardous. Do not reuse container.

SECTION 7: Handling and storage

Never use pressure to empty; the container is not a pressure vessel. Always keep in the same material as the supply container. Good housekeeping standards and regular safe removal of waste materials will minimise risks of spontaneous combustion and other fire hazards. The Manual Handling Operations Regulations may apply to the handling of containers of this product. Packs with a volume content of 5 litres or more may be marked with a maximum gross weight. To assist employers the following method of calculating the weight for any pack size is given. Take the pack size volume in litres and multiply this figure by the specific gravity (relative density) value given in section 9. This will give the net weight of the coating in kilograms. Allowance will then have to be made for the immediate packaging to give an approximate gross weight.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in a cool, well-ventilated area away from incompatible materials and ignition sources. Keep out of the reach of children. Keep away from: Oxidizing agents, strong alkalis, strong acids. No smoking. Prevent unauthorized access. Containers that are opened must be carefully resealed and kept upright to prevent leakage.

Storage : Do not store below the following temperature: 5 °C

7.3 Specific end use(s)

See separate Product Data Sheet for recommendations or industrial sector specific solutions.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

| Product/ingredient name | Exposure limit values |
|--------------------------------|-----------------------|
| No exposure limit value known. | |

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. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

Derived effect levels

No DELs available.

Predicted effect concentrations

No PECs available.

8.2 Exposure controls

Appropriate engineering controls

All engineering control measures used to control exposure to hazardous substances must be selected, maintained, examined and tested to meet the requirements of the Control Of Substances Hazardous to Health regulations (COSHH). Similarly all personal protective equipment, including respiratory protective equipment, must be selected, issued and maintained to meet the requirements of COSHH.

These requirements include the provision of any necessary information, instruction and training with regard to their use. Special precautions should be taken during surface preparation of pre-1960's paint surfaces over wood and metal as they may contain harmful lead.

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of solvent vapour below the relevant workplace exposure limits, suitable respiratory protection should be worn. (See personal protection below). Dry sanding, flame cutting and/ or welding of the dry paint film will give rise to dust and/ or hazardous fumes. Wet sanding should be used wherever possible. If exposure cannot be avoided by the provision of local exhaust ventilation, suitable respiratory protective equipment should be worn.

Individual protection measures



General : Gloves must be worn for all work that may result in soiling. Apron/coveralls/protective clothing must be worn when soiling is so great that regular work clothes do not adequately protect skin against contact with the product. Safety eyewear should be used when there is a likelihood of exposure.

Hygiene measures : Wash hands, forearms, and face thoroughly after handling compounds and before eating, smoking, using lavatory, and at the end of day.

SECTION 8: Exposure controls/personal protection

| | |
|--------------------------|--|
| Eye/face protection : | Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields. |
| Hand protection : | <p>Wear chemical-resistant gloves (tested to EN374) in combination with 'basic' employee training. The quality of the chemical-resistant protective gloves must be chosen as a function of the specific workplace concentrations and quantity of hazardous substances.</p> <p>Since the actual work situation is unknown. Supplier of gloves should be contacted in order to find the appropriate type. Below listed glove(s) should be regarded as generic advice:</p> <p>Recommended: Silver Shield / 4H gloves, nitrile rubber, polyvinyl alcohol (PVA), Viton® Short term exposure: neoprene rubber, butyl rubber, natural rubber (latex), polyvinyl chloride (PVC)</p> |
| Body protection : | Personal protective equipment for the body should be selected based on the task being performed and the risks involved handling this product. |
| Respiratory protection : | Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If working areas have insufficient ventilation: When the product is applied by means that will not generate an aerosol such as, brush or roller wear half or totally covering mask equipped with gas filter of type A, when grinding use particle filter of type P. Be sure to use an approved/certified respirator or equivalent. |

Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | |
|--|---|
| Physical state : | Liquid. |
| Odour : | Solvent-like |
| pH : | 7 - 9 |
| Melting point/freezing point : | -66°C This is based on data for the following ingredient: naphtha (petroleum), hydrotreated heavy |
| Boiling point/boiling range : | 150°C |
| Flash point : | Closed cup: 37.8 - 61°C (100 - 141.8°F) |
| Evaporation rate : | Testing not relevant or not possible due to nature of the product. |
| Flammability : | Not available. |
| Upper/lower flammability or explosive limits : | 1.4 - 7.6 vol % |
| Vapour pressure : | 0.2 kPa This is based on data for the following ingredient: naphtha (petroleum), hydrotreated heavy |
| Vapour density : | Testing not relevant or not possible due to nature of the product. |
| Relative density : | 0.923 g/cm ³ |
| Solubility(ies) : | Easily soluble in the following materials: cold water and hot water. |
| Partition coefficient (LogKow) : | Testing not relevant or not possible due to nature of the product. |
| Auto-ignition temperature : | Testing not relevant or not possible due to nature of the product. |
| Decomposition temperature : | Testing not relevant or not possible due to nature of the product. |
| Viscosity : | Kinematic (40°C): 2.77 cm ² /s |
| Explosive properties : | Testing not relevant or not possible due to nature of the product. |
| Oxidising properties : | Testing not relevant or not possible due to nature of the product. |

9.2 Other information

| | |
|--------------------------|------------------------|
| Solvent(s) % by weight : | Weighted average: 31 % |
| Water % by weight : | Weighted average: 22 % |

SECTION 10: Stability and reactivity

10.1 Reactivity

No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability

The product is stable.

10.3 Possibility of hazardous reactions

SECTION 10: Stability and reactivity

Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid

Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

10.5 Incompatible materials

No specific data.

10.6 Hazardous decomposition products

When exposed to high temperatures (i.e. in case of fire) harmful decomposition products may be formed:

Decomposition products may include the following materials: carbon oxides

SECTION 11: Toxicological information**11.1 Information on toxicological effects**

The product has been assessed following the conventional method and is classified for toxicological hazards accordingly. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short term and long term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Exposure to component 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 the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

Acute toxicity

| Product/ingredient name | Result | Species | Dose | Exposure |
|---|---------------------------------|---------|-------------|----------|
| naphtha (petroleum), hydrotreated heavy | LD50 Oral | Rat | >2000 mg/kg | - |
| 2-butanone oxime | LD50 Dermal | Rabbit | 1001 mg/kg | - |
| | LD50 Oral | Rat | 930 mg/kg | - |
| 4,5-dichloro-2-n-octyl-4-isothiazolin-3-one | LC50 Inhalation Dusts and mists | Rat | 0.26 mg/l | 4 hours |

Acute toxicity estimates

| Route | ATE value |
|---|-----------|
| No known significant effects or critical hazards. | |

Irritation/Corrosion

| Product/ingredient name | Result | Species | Score | Exposure |
|-------------------------|------------------------|---------|-------|-----------------|
| 2-butanone oxime | Eyes - Severe irritant | Rabbit | - | 100 microliters |

Mutagenic effects

No known significant effects or critical hazards.

Carcinogenicity

No known significant effects or critical hazards.

Reproductive toxicity

No known significant effects or critical hazards.

Teratogenic effects

No known significant effects or critical hazards.

Specific target organ toxicity (single exposure)

| Product/ingredient name | Category | Route of exposure | Target organs |
|---|------------|-------------------|------------------------------|
| 4,5-dichloro-2-n-octyl-4-isothiazolin-3-one | Category 3 | Not applicable. | Respiratory tract irritation |

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

SECTION 11: Toxicological information

| Product/ingredient name | Result |
|---|--------------------------------|
| naphtha (petroleum), hydrotreated heavy | ASPIRATION HAZARD - Category 1 |

Information on likely routes of exposure

Routes of entry anticipated: Oral, Dermal, Inhalation.

Potential chronic health effects

| Product/ingredient name | Carcinogenic effects | Mutagenic effects | Developmental effects | Fertility effects |
|-------------------------|----------------------|-------------------|-----------------------|-------------------|
| 2-butanone oxime | Carc. 2, H351 | - | - | - |

Sensitisation : Contains 2-butanone oxime, 4,5-dichloro-2-n-octyl -4-isothiazolin-3-one. May produce an allergic reaction.

Other information : No additional known significant effects or critical hazards.

SECTION 12: Ecological information**12.1 Toxicity**

Do not allow to enter drains or watercourses.

| Product/ingredient name | Result | Species | Exposure |
|--|-------------------------------------|-------------------------|----------|
| naphtha (petroleum), hydrotreated heavy | Acute LC50 2200 mg/l | Fish | 96 hours |
| 4,5-dichloro-2-n-octyl -4-isothiazolin-3-one | Acute EC50 5.22 - 7 ppb Fresh water | Daphnia - Daphnia magna | 48 hours |
| | Acute LC50 2.6 mg/l | Fish | 96 hours |

12.2 Persistence and degradability

No known data available in our database.

12.3 Bioaccumulative potential

| Product/ingredient name | LogP _{ow} | BCF | Potential |
|--|--------------------|-----------|-----------|
| naphtha (petroleum), hydrotreated heavy | - | 10 - 2500 | high |
| 2-butanone oxime | 0.63 | 2.5 - 5.8 | low |
| 4,5-dichloro-2-n-octyl -4-isothiazolin-3-one | 6.4 | <13 | low |

12.4 Mobility in soil

Soil/water partition coefficient (K_{oc}) : No known data available in our database.

Mobility : No known data available in our database.

12.5 Results of PBT and vPvB assessment

PBT : Not applicable.

vPvB : Not applicable.

12.6 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations**13.1 Waste treatment methods**

The generation of waste should be avoided or minimised wherever possible. Residues of the product is listed as hazardous waste. Dispose of according to all state and local applicable regulations. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Spillage, remains, discarded clothes and similar should be discarded in a fireproof container.

European waste catalogue (EWC) : 08 01 11*




Packaging

Used containers, drained and/ or rigorously scraped out and containing dried residues of the supplied coating, are categorised as hazardous waste, with EWC code: 15 01 10*.

If mixed with other wastes, the above waste code may not be applicable.

SECTION 14: Transport information

Transport may take place according to national regulation or ADR for transport by road, RID for transport by train, IMDG for transport by sea, IATA for transport by air.

| | 14.1 UN no. | 14.2 Proper shipping name | 14.3 Transport hazard class(es) | 14.4 PG* | 14.5 Env* | Additional information |
|----------------------|----------------|------------------------------|---|-------------|--------------|---|
| ADR/RID Class | 1263 | Paint (3S348 - Cancelled) | 3  | III | No. | Special provisions 640 (E) Tunnel code (D/E) |
| IMDG Class | 1263 | Paint (3S348 - Cancelled) | 3  | III | No. | Emergency schedules (EmS) F-E, S-E |
| IATA Class | 1263 | Paint (3S348 - Cancelled) | 3  | III | No. | - |

PG* : Packing group

Env.* : Environmental hazards

14.6 Special precautions for user

Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable.

SECTION 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

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Not applicable.

Other EU regulations

This product is controlled under the Seveso III Directive.

| Seveso category |
|--|
| P5c: Flammable liquids 2 and 3 not falling under P5a or P5b C6: Flammable (R10) |

National regulations**15.2 Chemical safety assessment**

This product contains substances for which Chemical Safety Assessments are still required.

SECTION 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

SECTION 16: Other information

| | | |
|--|-------------------------|--|
| Full text of abbreviated H statements : | H226 | Flammable liquid and vapour. |
| | H302 | Harmful if swallowed. |
| | H304 | May be fatal if swallowed and enters airways. |
| | H312 | Harmful in contact with skin. |
| | H314 | Causes severe skin burns and eye damage. |
| | H317 | May cause an allergic skin reaction. |
| | H318 | Causes serious eye damage. |
| | H330 | Fatal if inhaled. |
| | H335 | May cause respiratory irritation. |
| | H351 | Suspected of causing cancer. |
| | H400 | Very toxic to aquatic life. |
| | H410 | Very toxic to aquatic life with long lasting effects. |
| Full text of classifications [CLP/GHS] : | Acute Tox. 2, H330 | ACUTE TOXICITY (inhalation) - Category 2 |
| | Acute Tox. 4, H302 | ACUTE TOXICITY (oral) - Category 4 |
| | Acute Tox. 4, H312 | ACUTE TOXICITY (dermal) - Category 4 |
| | Aquatic Acute 1, H400 | ACUTE AQUATIC HAZARD - Category 1 |
| | Aquatic Chronic 1, H410 | LONG-TERM AQUATIC HAZARD - Category 1 |
| | Asp. Tox. 1, H304 | ASPIRATION HAZARD - Category 1 |
| | Carc. 2, H351 | CARCINOGENICITY - Category 2 |
| | EUH066 | Repeated exposure may cause skin dryness or cracking. |
| | Eye Dam. 1, H318 | SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 |
| | Flam. Liq. 3, H226 | FLAMMABLE LIQUIDS - Category 3 |
| | Skin Corr. 1C, H314 | SKIN CORROSION/IRRITATION - Category 1C |
| | Skin Sens. 1, H317 | SKIN SENSITIZATION - Category 1 |
| | Skin Sens. 1A, H317 | SKIN SENSITIZATION - Category 1A |
| | STOT SE 3, H335 | SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 |

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

| Classification | Justification |
|---|---|
| FLAMMABLE LIQUIDS - Category 3 SKIN SENSITIZATION - Category 1 | On basis of test data Calculation method |

UK REGULATORY REFERENCES:

The products are classified and supplied in accordance with the Chemicals (Hazard Information Packaging for supply) regulations (CHIP). The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks as required by other health and safety legislation. The provision of the Health and Safety at Work Act and the Control of Substances Hazardous to Health regulations apply to the use of this product at work.

EU DIRECTIVES:

Dangerous Substance Directive 67/548/EEC. Dangerous Preparations Directive 1999/45/EC. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments. Classification, labelling and packaging of substances and mixtures 1272/2008EC.

APPROVED CODE OF PRACTICE:

Approved classification and labelling guide (Sixth edition) The compilation of safety data sheets (Third edition).

GUIDANCE NOTES:

Workplace Exposure Limits EH40. Storage of Flammable Liquids in Containers, HS(G)51 Storage of Packaged Dangerous Substances, HS(G)71.

NATIONAL REGULATIONS:

The Control Of Substances Hazardous to Health regulations (as amended) The Manual Handling Operations regulations (as amended) The Environmental Protection (Duty of Care) regulations (as amended) The Chemicals (Hazard Information and Packaging) for supply regulations (as amended) The Health and Safety at Work act 1974 (as amended).

Notice to reader

The information contained in this safety data sheet is based on the present state of knowledge and EU and national legislation. It provides guidance on health, safety and environmental aspects for handling the product in a safe way and should not be construed as any guarantee of the technical performance or suitability for particular applications.

It is always the duty of the user/employer to ascertain that the work is planned and carried out in accordance with the national regulations.



Safety Data Sheet

Sadolin Outdoor Varnish - Matt

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 2015/830 - United Kingdom (UK)

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

1.1 Product identifier

Product name : Sadolin Outdoor Varnish - Matt
Product identity : LFZ6821
Product type : wood treatment

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

Field of application : Brush
Identified uses : Consumer applications.

1.3 Details of the supplier of the safety data sheet

Company details : Sadolin
Crown Paints
Crown House
Hollins Rd
Darwen
Lancs, BB3 0BG
Tel: 01254 704951
Fax: 01254 702678
www.crownpaint.co.uk
Date of issue : 2 September 2016
Date of previous issue : No previous validation.

1.4 Emergency telephone number

01254 704951 (08.00-17.00)
Contact Person:
Product SHE Information Manager
SHE@crownpaints.co.uk

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Flam. Liq. 3, H226 FLAMMABLE LIQUIDS - Category 3
Skin Sens. 1, H317 SKIN SENSITIZATION - Category 1

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

2.2 Label elements

Hazard pictograms :



Signal word : Warning
Hazard statements : H226 - Flammable liquid and vapour.
H317 - May cause an allergic skin reaction.

Precautionary statements :

General : Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.
Prevention : Wear protective gloves. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Response : IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical attention.
Storage : Keep cool.
Disposal : Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazardous ingredients : 2-butanone oxime
4,5-dichloro-2-n-octyl -4-isothiazolin-3-one
Supplemental label elements : Repeated exposure may cause skin dryness or cracking.

SECTION 2: Hazards identification**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 : Prolonged or repeated contact may dry skin and cause irritation.

SECTION 3: Composition/information on ingredients**3.2 Mixtures**

| Product/ingredient name | Identifiers | % | Regulation (EC) No. 1272/2008 [CLP] | Type |
|---|---|-----------|---|------|
| naphtha (petroleum), hydrotreated heavy | EC: 265-150-3 CAS: 64742-48-9 | ≥25 - ≤50 | Flam. Liq. 3, H226 Asp. Tox. 1, H304 EUH066 | [1] |
| hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics | REACH #: 01-2119463258-33 EC: 265-150-3 CAS: 64742-48-9 | ≥10 - ≤15 | Flam. Liq. 3, H226 STOT SE 3, H336 Asp. Tox. 1, H304 EUH066 | [1] |
| naphtha (petroleum), hydrotreated heavy HF | EC: 265-150-3 CAS: 64742-48-9 | ≥1 - ≤3 | STOT SE 3, H336 Asp. Tox. 1, H304 EUH066 | [1] |
| 2-butanone oxime | REACH #: 01-2119539477-28 EC: 202-496-6 CAS: 96-29-7 Index: 616-014-00-0 | ≤0.3 | Acute Tox. 4, H312 Eye Dam. 1, H318 Skin Sens. 1, H317 Carc. 2, H351 | [1] |
| 4,5-dichloro-2-n-octyl -4-isothiazolin-3-one | EC: 264-843-8 CAS: 64359-81-5 | <0.25 | Acute Tox. 4, H302 Acute Tox. 4, H312 Acute Tox. 2, H330 Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 STOT SE 3, H335 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=1) | [1] |

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 and hence require reporting in this section.

Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit, see section 8.

[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

[5] Substance of equivalent concern

SECTION 4: First aid measures**4.1 Description of first aid measures**

| | |
|------------------------------|---|
| General : | In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. |
| Eye contact : | Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. In all cases of doubt, or when symptoms persist, seek medical attention. |
| Inhalation : | Remove to fresh air. Keep person warm and at rest. If unconscious, place in recovery position and seek medical advice. |
| Skin contact : | Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners. |
| Ingestion : | If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do not induce vomiting unless directed to do so by medical personnel. Lower the head so that vomit will not re-enter the mouth and throat. |
| 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. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. |

4.2 Most important symptoms and effects, both acute and delayed**Potential acute health effects**

Eye contact : No known significant effects or critical hazards.

SECTION 4: First aid measures

| | |
|----------------|--|
| Inhalation : | No known significant effects or critical hazards. |
| Skin contact : | Defatting to the skin. May cause skin dryness and irritation. May cause an allergic skin reaction. |
| Ingestion : | No known significant effects or critical hazards. |

Over-exposure signs/symptoms

| | |
|----------------|---|
| Eye contact : | No specific data. |
| Inhalation : | No specific data. |
| Skin contact : | Adverse symptoms may include the following: irritation redness dryness cracking |
| Ingestion : | No specific data. |

4.3 Indication of any immediate medical attention and special treatment needed

| | |
|-----------------------|---|
| Notes to physician : | Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |
| Specific treatments : | No specific treatment. |

SECTION 5: Firefighting measures

5.1 Extinguishing media

| | |
|-----------------------|--|
| Extinguishing media : | Recommended: alcohol resistant foam, CO ₂ , powders, water spray. Not to be used : waterjet. |
|-----------------------|--|

5.2 Special hazards arising from the substance or mixture

| | |
|---|--|
| Hazards from the substance or mixture : | Flammable liquid and vapour. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard. |
| Hazardous combustion products : | Decomposition products may include the following materials: carbon oxides halogenated compounds metal oxide/oxides |

5.3 Advice for firefighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard. Cool closed containers exposed to fire with water. Do not release runoff from fire to drains or watercourses. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Exclude sources of ignition and be aware of explosion hazard. Ventilate the area. Avoid breathing vapour or mist. Refer to protective measures listed in sections 7 and 8. No action shall be taken involving any personal risk or without suitable training. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.

6.2 Environmental precautions

Avoid dispersal of spilt 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).

6.3 Methods and material for containment and cleaning up

Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Use spark-proof tools and explosion-proof equipment. Contaminated absorbent material may pose the same hazard as the spilt product.

6.4 Reference to other sections

See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

7.1 Precautions for safe 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. Remove contaminated clothing and protective equipment before entering eating areas. Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Empty containers retain product residue and can be hazardous. Do not reuse container.

Never use pressure to empty; the container is not a pressure vessel. Always keep in the same material as the supply container. Good housekeeping standards and regular safe removal of waste materials will minimise risks of spontaneous combustion and other fire hazards. The Manual Handling Operations Regulations may apply to the handling of containers of this product. Packs with a volume content of 5 litres or more may be marked with a maximum gross weight. To assist employers the following method of calculating the weight for any pack size is given. Take the pack size volume in litres and multiply this figure by the specific gravity (relative density) value given in section 9. This will give the net weight of the coating in kilograms. Allowance will then have to be made for the immediate packaging to give an approximate gross weight.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in a cool, well-ventilated area away from incompatible materials and ignition sources. Keep out of the reach of children. Keep away from: Oxidizing agents, strong alkalis, strong acids. No smoking. Prevent unauthorized access. Containers that are opened must be carefully resealed and kept upright to prevent leakage.

Storage : Do not store below the following temperature: 5 °C

7.3 Specific end use(s)

See separate Product Data Sheet for recommendations or industrial sector specific solutions.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

| Product/ingredient name | Exposure limit values |
|--------------------------------|-----------------------|
| No exposure limit value known. | |

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. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

Derived effect levels

No DELs available.

Predicted effect concentrations

No PECs available.

8.2 Exposure controls

Appropriate engineering controls

All engineering control measures used to control exposure to hazardous substances must be selected, maintained, examined and tested to meet the requirements of the Control Of Substances Hazardous to Health regulations (COSHH). Similarly all personal protective equipment, including respiratory protective equipment, must be selected, issued and maintained to meet the requirements of COSHH. These requirements include the provision of any necessary information, instruction and training with regard to their use. Special precautions should be taken during surface preparation of pre-1960's paint surfaces over wood and metal as they may contain harmful lead.

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of solvent vapour below the relevant workplace exposure limits, suitable respiratory protection should be worn. (See personal protection below). Dry sanding, flame cutting and/ or welding of the dry paint film will give rise to dust and/ or hazardous fumes. Wet sanding should be used wherever possible. If exposure cannot be avoided by the provision of local exhaust ventilation, suitable respiratory protective equipment should be worn.

Individual protection measures

SECTION 8: Exposure controls/personal protection



| | |
|--------------------------|--|
| General : | Gloves must be worn for all work that may result in soiling. Apron/coveralls/protective clothing must be worn when soiling is so great that regular work clothes do not adequately protect skin against contact with the product. Safety eyewear should be used when there is a likelihood of exposure. |
| Hygiene measures : | Wash hands, forearms, and face thoroughly after handling compounds and before eating, smoking, using lavatory, and at the end of day. |
| Eye/face protection : | Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields. |
| Hand protection : | <p>Wear chemical-resistant gloves (tested to EN374) in combination with 'basic' employee training. The quality of the chemical-resistant protective gloves must be chosen as a function of the specific workplace concentrations and quantity of hazardous substances.</p> <p>Since the actual work situation is unknown. Supplier of gloves should be contacted in order to find the appropriate type. Below listed glove(s) should be regarded as generic advice:</p> <p>Recommended: Silver Shield / 4H gloves, nitrile rubber, polyvinyl alcohol (PVA), Viton® Short term exposure: neoprene rubber, butyl rubber, natural rubber (latex), polyvinyl chloride (PVC)</p> |
| Body protection : | <p>Care should be taken in the selection of protective clothing to ensure that inflammation and irritation of the skin at the neck and wrists through contact with the product are avoided.</p> <p>Personal protective equipment for the body should be selected based on the task being performed and the risks involved handling this product.</p> <p>Wear suitable protective clothing.</p> |
| Respiratory protection : | Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If working areas have insufficient ventilation: When the product is applied by means that will not generate an aerosol such as, brush or roller wear half or totally covering mask equipped with gas filter of type A, when grinding use particle filter of type P. Be sure to use an approved/certified respirator or equivalent. |

Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | |
|--|--|
| Physical state : | Liquid. |
| Odour : | Solvent-like |
| pH : | Testing not relevant or not possible due to nature of the product. |
| Melting point/freezing point : | Testing not relevant or not possible due to nature of the product. |
| Boiling point/boiling range : | Testing not relevant or not possible due to nature of the product. |
| Flash point : | Closed cup: 37.8 - 61°C (100 - 141.8°F) |
| Evaporation rate : | Testing not relevant or not possible due to nature of the product. |
| Flammability : | Not available. |
| Upper/lower flammability or explosive limits : | 1.4 - 7.6 vol % |
| Vapour pressure : | Testing not relevant or not possible due to nature of the product. |
| Vapour density : | Testing not relevant or not possible due to nature of the product. |
| Relative density : | 0.975 g/cm ³ |
| Solubility(ies) : | |
| Partition coefficient (LogKow) : | Testing not relevant or not possible due to nature of the product. |
| Auto-ignition temperature : | Testing not relevant or not possible due to nature of the product. |
| Decomposition temperature : | Testing not relevant or not possible due to nature of the product. |
| Viscosity : | Kinematic (40°C): 0.5 cm ² /s |
| Explosive properties : | Testing not relevant or not possible due to nature of the product. |
| Oxidising properties : | Testing not relevant or not possible due to nature of the product. |

9.2 Other information

SECTION 9: Physical and chemical properties

Solvent(s) % by weight : Weighted average: 39 %
 Water % by weight : Weighted average: 0 %

SECTION 10: Stability and reactivity**10.1 Reactivity**

No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability

The product is stable.

10.3 Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid

Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

10.5 Incompatible materials

No specific data.

10.6 Hazardous decomposition products

When exposed to high temperatures (i.e. in case of fire) harmful decomposition products may be formed:

Decomposition products may include the following materials: carbon oxides halogenated compounds metal oxide/oxides

SECTION 11: Toxicological information**11.1 Information on toxicological effects**

The product has been assessed following the conventional method and is classified for toxicological hazards accordingly. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short term and long term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Exposure to component 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 the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

Acute toxicity

| Product/ingredient name | Result | Species | Dose | Exposure |
|--|---------------------------------|---------|------------------------|----------|
| naphtha (petroleum), hydrotreated heavy hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics naphtha (petroleum), hydrotreated heavy HF | LD50 Oral | Rat | >2000 mg/kg | - |
| | LD50 Oral | Rat | >2000 mg/kg | - |
| | LC50 Inhalation Vapour | Rat | 8500 mg/m ³ | 4 hours |
| | LD50 Dermal | Rabbit | >5000 mg/kg | - |
| 2-butanone oxime | LD50 Oral | Rat | >2000 mg/kg | - |
| | LD50 Dermal | Rabbit | 1001 mg/kg | - |
| 4,5-dichloro-2-n-octyl-4-isothiazolin-3-one | LD50 Oral | Rat | 930 mg/kg | - |
| | LC50 Inhalation Dusts and mists | Rat | 0.26 mg/l | 4 hours |

Acute toxicity estimates

| Route | ATE value |
|------------------------------|-----------|
| Inhalation (dusts and mists) | 208 mg/l |

Irritation/Corrosion

| Product/ingredient name | Result | Species | Score | Exposure |
|--|------------------------|---------|-------|-----------------|
| hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics 2-butanone oxime | Eyes - Mild irritant | Rabbit | - | - |
| | Eyes - Severe irritant | Rabbit | - | 100 microliters |

Mutagenic effects

No known significant effects or critical hazards.

Carcinogenicity

SECTION 11: Toxicological information

No known significant effects or critical hazards.

Reproductive toxicity

No known significant effects or critical hazards.

Teratogenic effects

No known significant effects or critical hazards.

Specific target organ toxicity (single exposure)

| Product/ingredient name | Category | Route of exposure | Target organs |
|---|--|---|--|
| hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics naphtha (petroleum), hydrotreated heavy HF 4,5-dichloro-2-n-octyl -4-isothiazolin-3-one | Category 3 Category 3 Category 3 | Not applicable. Not applicable. Not applicable. | Narcotic effects Narcotic effects Respiratory tract irritation |

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

| Product/ingredient name | Result |
|--|--|
| naphtha (petroleum), hydrotreated heavy hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics naphtha (petroleum), hydrotreated heavy HF | ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 |

Information on likely routes of exposure

Routes of entry anticipated: Oral, Dermal, Inhalation.

Potential chronic health effects

| Product/ingredient name | Carcinogenic effects | Mutagenic effects | Developmental effects | Fertility effects |
|-------------------------|----------------------|-------------------|-----------------------|-------------------|
| 2-butanone oxime | Carc. 2, H351 | - | - | - |

Sensitisation : Contains 2-butanone oxime, 4,5-dichloro-2-n-octyl -4-isothiazolin-3-one. May produce an allergic reaction.

Other information : No additional known significant effects or critical hazards.

SECTION 12: Ecological information**12.1 Toxicity**

Do not allow to enter drains or watercourses.

| Product/ingredient name | Result | Species | Exposure |
|--|-------------------------------------|-------------------------|----------|
| naphtha (petroleum), hydrotreated heavy | Acute LC50 2200 mg/l | Fish | 96 hours |
| 4,5-dichloro-2-n-octyl -4-isothiazolin-3-one | Acute EC50 5.22 - 7 ppb Fresh water | Daphnia - Daphnia magna | 48 hours |
| | Acute LC50 2.6 mg/l | Fish | 96 hours |

12.2 Persistence and degradability

No known data available in our database.

12.3 Bioaccumulative potential

| Product/ingredient name | LogP _{ow} | BCF | Potential |
|---|--------------------|-----------|-----------|
| naphtha (petroleum), hydrotreated heavy | - | 10 - 2500 | high |
| hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics | - | 10 - 2500 | high |
| naphtha (petroleum), hydrotreated heavy HF | - | 10 - 2500 | high |
| 2-butanone oxime | 0.63 | 2.5 - 5.8 | low |
| 4,5-dichloro-2-n-octyl -4-isothiazolin-3-one | 6.4 | <13 | low |

12.4 Mobility in soil

Soil/water partition coefficient (K_{oc}) : No known data available in our database.

Mobility : No known data available in our database.

12.5 Results of PBT and vPvB assessment

PBT : Not applicable.

SECTION 12: Ecological information

vPvB : Not applicable.

12.6 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations**13.1 Waste treatment methods**

The generation of waste should be avoided or minimised wherever possible. Residues of the product is listed as hazardous waste. Dispose of according to all state and local applicable regulations. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Spillage, remains, discarded clothes and similar should be discarded in a fireproof container.

European waste catalogue (EWC) : 08 01 11*




Packaging

Used containers, drained and/ or rigorously scraped out and containing dried residues of the supplied coating, are categorised as hazardous waste, with EWC code: 15 01 10*.

If mixed with other wastes, the above waste code may not be applicable.

SECTION 14: Transport information

Transport may take place according to national regulation or ADR for transport by road, RID for transport by train, IMDG for transport by sea, IATA for transport by air.

| | 14.1 UN no. | 14.2 Proper shipping name | 14.3 Transport hazard class(es) | 14.4 PG* | 14.5 Env* | Additional information |
|--------------------------|----------------|--|--|-------------|--------------|---|
| ADR/RID Class | UN1263 | PAINT (naphtha (petroleum), hydrotreated heavy) | 3  | III | No. | Special provisions 640 (E) Tunnel code (D/E) |
| IMDG Class | UN1263 | PAINT (naphtha (petroleum), hydrotreated heavy) | 3  | III | No. | Emergency schedules (EmS) F-E, S-A |
| IATA Class | UN1263 | PAINT (naphtha (petroleum), hydrotreated heavy) | 3  | III | No. | - |

PG* : Packing group

Env.* : Environmental hazards

14.6 Special precautions for user

Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable.

SECTION 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

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Not applicable.

Other EU regulations

This product is controlled under the Seveso III Directive.

Seveso category

P5c: Flammable liquids 2 and 3 not falling under P5a or P5b
C6: Flammable (R10)

National regulations

SECTION 15: Regulatory information**15.2 Chemical safety assessment**

This product contains substances for which Chemical Safety Assessments are still required.

SECTION 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 :

H226 Flammable liquid and vapour.
 H302 Harmful if swallowed.
 H304 May be fatal if swallowed and enters airways.
 H312 Harmful in contact with skin.
 H314 Causes severe skin burns and eye damage.
 H317 May cause an allergic skin reaction.
 H318 Causes serious eye damage.
 H330 Fatal if inhaled.
 H335 May cause respiratory irritation.
 H336 May cause drowsiness or dizziness.
 H351 Suspected of causing cancer.
 H400 Very toxic to aquatic life.
 H410 Very toxic to aquatic life with long lasting effects.

Full text of classifications [CLP/GHS] :

Acute Tox. 2, H330 ACUTE TOXICITY (inhalation) - Category 2
 Acute Tox. 4, H302 ACUTE TOXICITY (oral) - Category 4
 Acute Tox. 4, H312 ACUTE TOXICITY (dermal) - Category 4
 Aquatic Acute 1, H400 ACUTE AQUATIC HAZARD - Category 1
 Aquatic Chronic 1, H410 LONG-TERM AQUATIC HAZARD - Category 1
 Asp. Tox. 1, H304 ASPIRATION HAZARD - Category 1
 Carc. 2, H351 CARCINOGENICITY - Category 2
 EUH066 Repeated exposure may cause skin dryness or cracking.
 Eye Dam. 1, H318 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1
 Flam. Liq. 3, H226 FLAMMABLE LIQUIDS - Category 3
 Skin Corr. 1C, H314 SKIN CORROSION/IRRITATION - Category 1C
 Skin Sens. 1, H317 SKIN SENSITIZATION - Category 1
 Skin Sens. 1A, H317 SKIN SENSITIZATION - Category 1A
 STOT SE 3, H335 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
 STOT SE 3, H336 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

| Classification | Justification |
|---|---|
| FLAMMABLE LIQUIDS - Category 3 SKIN SENSITIZATION - Category 1 | On basis of test data Calculation method |

UK REGULATORY REFERENCES:

The products are classified and supplied in accordance with the Chemicals (Hazard Information Packaging for supply) regulations (CHIP). The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks as required by other health and safety legislation. The provision of the Health and Safety at Work Act and the Control of Substances Hazardous to Health regulations apply to the use of this product at work.

EU DIRECTIVES:

Dangerous Substance Directive 67/548/EEC. Dangerous Preparations Directive 1999/45/EC. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments. Classification, labelling and packaging of substances and mixtures 1272/2008EC.

APPROVED CODE OF PRACTICE:

Approved classification and labelling guide (Sixth edition) The compilation of safety data sheets (Third edition).

GUIDANCE NOTES:

Workplace Exposure Limits EH40. Storage of Flammable Liquids in Containers, HS(G)51 Storage of Packaged Dangerous Substances, HS(G)71.

NATIONAL REGULATIONS:

The Control Of Substances Hazardous to Health regulations (as amended) The Manual Handling Operations regulations (as amended) The Environmental Protection (Duty of Care) regulations (as amended) The Chemicals (Hazard Information and Packaging) for supply regulations (as amended) The Health and Safety at Work act 1974 (as amended).

Notice to reader

SECTION 16: Other information

The information contained in this safety data sheet is based on the present state of knowledge and EU and national legislation. It provides guidance on health, safety and environmental aspects for handling the product in a safe way and should not be construed as any guarantee of the technical performance or suitability for particular applications.

It is always the duty of the user/employer to ascertain that the work is planned and carried out in accordance with the national regulations.