

SAFETY DATA SHEET



Nycote 7-11

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

1.1 Product identifier

Product name : Nycote 7-11

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

Identified uses : Not available.

1.3 Details of the supplier of the safety data sheet

Supplier/Manufacturer : Nycote Laboratories Corporation
 12750 Raymer St., Bldg. A-3
 North Hollywood, California 91605
 Tel: 1-(818)-764-8177

e-mail address of person responsible for this SDS : sales@nycote.com

1.4 Emergency telephone number

National advisory body/Poison Centre

Telephone number : ChemTel
 1-813-248-0585
 1-800-255-3924

Hours of operation : (24/7)

SECTION 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 : R10
 Carc. Cat. 2; R45
 Repr. Cat. 3; R63
 Xn; R48/20, R65
 Xi; R38
 R67

Physical/chemical hazards : Flammable.

Human health hazards : May cause cancer. Possible risk of harm to the unborn child. Also harmful: danger of serious damage to health by prolonged exposure through inhalation. Also harmful: may cause lung damage if swallowed. Irritating to skin. Vapours may cause drowsiness and dizziness.

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 pictograms :



Signal word : Danger

SECTION 2: Hazards identification

- Hazard statements** : Highly flammable liquid and vapour.
Harmful if swallowed.
Harmful if inhaled.
Causes skin irritation.
Causes serious eye irritation.
May cause cancer.
Suspected of damaging the unborn child.
May cause drowsiness or dizziness.
May cause damage to organs through prolonged or repeated exposure.
Very toxic to aquatic life.
- Precautionary statements**
- Prevention** : P201 - Obtain special instructions before use.
P280 - Wear protective gloves. Wear eye or face protection.
P210 - Keep away from heat, sparks, open flames and hot surfaces. - No smoking.
P241 - Use explosion-proof electrical, ventilating, lighting and all material-handling equipment.
P273 - Avoid release to the environment.
P260 - Do not breathe vapour.
- Response** : P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
- Storage** : P235 - Keep cool.
- Disposal** :
- Hazard symbol or symbols** : 
- Indication of danger** : Toxic
- Risk phrases** : R10- Flammable.
R45- May cause cancer.
R63- Possible risk of harm to the unborn child.
R48/20- Also harmful: danger of serious damage to health by prolonged exposure through inhalation.
R65- Also harmful: may cause lung damage if swallowed.
R38- Irritating to skin.
R67- Vapours may cause drowsiness and dizziness.
- Safety phrases** : S16- Keep away from sources of ignition - No smoking.
S53- Avoid exposure - obtain special instructions before use.
S36/37- Wear suitable protective clothing and gloves.
S23- Do not breathe vapour or spray.
S51- Use only in well-ventilated areas.
- Hazardous ingredients** : Toluene
2-Nitropropane
- Supplemental label elements** : Not applicable.
- Special packaging requirements**
- Containers to be fitted with child-resistant fastenings** : Not applicable.
- Tactile warning of danger** : Not applicable.

2.3 Other hazards

- Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII** : Not applicable.

SECTION 2: Hazards identification

Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII : Not applicable.

Other hazards which do not result in classification : Not available.

SECTION 3: Composition/information on ingredients

Substance/mixture : Mixture

| Product/ingredient name | Identifiers | % | Classification | | Type |
|-------------------------|---|-------|--|--|---------|
| | | | 67/548/EEC | Regulation (EC) No. 1272/2008 [CLP] | |
| Ethyl Alcohol | EC: 200-578-6 CAS: 64-17-5 Index: 603-002-00-5 | 50-75 | F; R11 | Flam. Liq. 2, H225 Skin Irrit. 2, H315 Eye Irrit. 2, H319 | [2] |
| Toluene | EC: 203-625-9 CAS: 108-88-3 Index: 601-021-00-3 | 20-25 | F; R11 Repr. Cat. 3; R63 Xn; R48/20, R65 Xi; R38 R67 | Flam. Liq. 2, H225 Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Repr. 2, H361d STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304 | [1] [2] |
| 2-Nitropropane | EC: 201-209-1 CAS: 79-46-9 Index: 609-002-00-1 | 7-25 | R10 Carc. Cat. 2; R45 Xn; R20/22 | Flam. Liq. 3, H226 Acute Tox. 4, H302 Acute Tox. 3, H331 Eye Irrit. 2, H319 Carc. 1B, H350 | [1] [2] |
| Phenol | EC: 203-632-7 CAS: 108-95-2 Index: 604-001-00-2 | 0.1-1 | Muta. Cat. 3; R68 T; R23/24/25 Xn; R48/20/21/22 C; R34 | Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 1, H330 Skin Corr. 1B, H314 Eye Dam. 1, H318 Muta. 2, H341 STOT RE 2, H373 Aquatic Acute 1, H400 | [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. | |

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

[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.

SECTION 4: First aid measures

4.1 Description of first aid measures

- Eye contact** : Immediately flush eyes with plenty of water for at least 20 minutes, occasionally lifting the upper and lower eyelids. Get medical attention if symptoms occur.
- Skin contact** : In case of contact, immediately flush skin with plenty of water for at least 20 minutes. Get medical attention if symptoms occur.
- Inhalation** : Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Call medical doctor or poison control centre immediately.
- Ingestion** : Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Call medical doctor or poison control centre immediately.

SECTION 4: First aid measures

Protection of first-aiders : If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. 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 Indication of any immediate medical attention and special treatment needed

Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Specific treatments : No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Use dry chemical, CO₂, water spray (fog) or foam.

Unsuitable extinguishing media : Do not use water jet.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture : Flammable liquid.

Hazardous combustion products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
nitrogen oxides

5.3 Advice for firefighters

Special precautions for fire-fighters : Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

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. 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

For non-emergency personnel : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also Section 8 for additional information on hygiene measures.

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 materials for containment and cleaning up

Small spill : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry 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.

SECTION 6: Accidental release measures

- Large spill** : 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. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled 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

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not get in eyes or on skin or clothing. Do not swallow. 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. 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. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Advice on general occupational hygiene** : 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. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

- : Store in accordance with local regulations. Store in a segregated and approved area. 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. Use appropriate containment to avoid environmental contamination. **Store between the following temperatures: 65°F (18.33°C) and 80°F (26.67°C). Keep from freezing.**

7.3 Specific end use(s)

- Recommendations** : Not available.
- Industrial sector specific solutions** : Not available.

SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

| Product/ingredient name | Exposure limit values |
|-------------------------|--|
| Ethyl Alcohol | EH40/2005 WELs (United Kingdom (UK), 8/2007). TWA: 1920 mg/m ³ 8 hour(s). TWA: 1000 ppm 8 hour(s). |
| Toluene | EH40/2005 WELs (United Kingdom (UK), 8/2007). Absorbed through skin. STEL: 384 mg/m ³ 15 minute(s). STEL: 100 ppm 15 minute(s). TWA: 191 mg/m ³ 8 hour(s). TWA: 50 ppm 8 hour(s). |
| 2-Nitropropane | EH40/2005 WELs (United Kingdom (UK), 8/2007). TWA: 19 mg/m ³ 8 hour(s). TWA: 5 ppm 8 hour(s). |
| Phenol | EH40/2005 WELs (United Kingdom (UK), 8/2007). Absorbed through skin. TWA: 2 ppm 8 hour(s). |

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 European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.

8.2 Exposure controls

Appropriate engineering controls : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. Use explosion-proof ventilation equipment.

Individual protection measures

Hygiene measures : Ensure that eyewash stations and safety showers are close to the workstation location. 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.

Eye/face protection : Safety eyewear should be used when there is a likelihood of exposure. Recommended: Safety glasses with side shields.

Skin protection

Hand protection : Use gloves appropriate for work or task being performed. Recommended: Natural rubber (latex).

Body 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. Recommended: Overalls.

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before 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.

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.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state : Liquid. [Clear.]

Colour : Yellowish. [Light]

Odour : Alcohol-like. [Slight]

pH : Not available.

Melting point/freezing point : Not available.

SECTION 9: Physical and chemical properties

| | |
|-------------------------|-------------------------------|
| Boiling point | : 77°C |
| Flash point | : Open cup: 21°C [Cleveland.] |
| Evaporation rate | : Not available. |
| Flammability | : Not available. |
| Vapour pressure | : 0.013 kPa [20°C] |
| Vapour density | : Not available. |
| Relative density | : 0.89 |

9.2 Other information

No additional information.

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 | : Reactive or incompatible with the following materials: oxidizing materials, acids and alkalis. |
| 10.6 Hazardous decomposition products | : Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides |

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

| Product/ingredient name | Result | Species | Dose | Exposure |
|-------------------------|------------------------|---------|--------------|----------|
| Ethyl Alcohol | LC50 Inhalation Vapour | Rat | 124700 mg/m3 | 4 hours |
| | LD50 Oral | Rat | 7 g/kg | - |
| Toluene | LC50 Inhalation Vapour | Rat | 49 g/m3 | 4 hours |
| | LD50 Oral | Rat | 636 mg/kg | - |
| 2-Nitropropane | LC50 Inhalation Vapour | Rat | 12070 mg/m3 | 1 hours |
| | LD50 Dermal | Rabbit | >2000 mg/kg | - |
| Phenol | LD50 Oral | Rat | 565 mg/kg | - |
| | LC50 Inhalation Vapour | Rat | 316 mg/m3 | 4 hours |
| | LD50 Dermal | Rabbit | 630 mg/kg | - |
| | LD50 Dermal | Rat | 669 mg/kg | - |
| | LD50 Oral | Rat | 317 mg/kg | - |

Irritation/Corrosion

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|-------------------------|--------------------------|---------|-------|----------|-------------|
| Ethyl Alcohol | Eyes - Moderate irritant | Rabbit | - | - | - |
| | Skin - Moderate irritant | Rabbit | - | - | - |
| Toluene | Eyes - Mild irritant | Rabbit | - | - | - |
| | Skin - Moderate irritant | Rabbit | - | - | - |
| 2-Nitropropane | Eyes - Mild irritant | Rabbit | - | - | - |
| Phenol | Eyes - Severe irritant | Rabbit | - | - | - |
| | Skin - Severe irritant | Rabbit | - | - | - |

Skin : Applicable.

Eyes : Applicable.

SECTION 11: Toxicological information

Information on the likely routes of exposure : Not available.

Potential acute health effects

- Inhalation** : Vapours may cause drowsiness and dizziness. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
- Ingestion** : Aspiration hazard if swallowed. Can enter lungs and cause damage. Irritating to mouth, throat and stomach.
- Skin contact** : Irritating to skin.
- Eye contact** : May cause eye irritation.

Symptoms related to the physical, chemical and toxicological characteristics

- Inhalation** : Adverse symptoms may include the following:
nausea or vomiting
headache
drowsiness/fatigue
dizziness/vertigo
reduced foetal weight
increase in foetal deaths
skeletal malformations
- Ingestion** : Adverse symptoms may include the following:
nausea or vomiting
reduced foetal weight
increase in foetal deaths
skeletal malformations
- Skin contact** : Adverse symptoms may include the following:
irritation
redness
reduced foetal weight
increase in foetal deaths
skeletal malformations
- Eye contact** : No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

- Potential immediate effects** : Not available.
- Potential delayed effects** : Not available.

Long term exposure

- Potential immediate effects** : Not available.
- Potential delayed effects** : Not available.

General : Harmful: danger of serious damage to health by prolonged exposure through inhalation.

Carcinogenicity : May cause cancer. Risk of cancer depends on duration and level of exposure.

Mutagenicity : No known significant effects or critical hazards.

Teratogenicity : May cause birth defects, based on animal data.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

Other information : Not available.

SECTION 12: Ecological information

12.1 Toxicity

| Product/ingredient name | Result | Species | Exposure |
|----------------------------------|--|---|----------|
| Ethyl Alcohol | Acute EC50 17.921 mg/L Marine water | Algae - Ulva pertusa | 96 hours |
| | Acute EC50 2000 ug/L Fresh water | Daphnia - Daphnia magna | 48 hours |
| | Acute LC50 25500 ug/L Marine water | Crustaceans - Artemia franchiscana - Larvae | 48 hours |
| Toluene | Acute LC50 42000 ug/L Fresh water | Fish - Oncorhynchus mykiss | 4 days |
| | Chronic NOEC <6.3 g/L Fresh water | Daphnia - Daphnia magna | 48 hours |
| | Acute EC50 12500 ug/L Fresh water | Algae - Pseudokirchneriella subcapitata | 72 hours |
| | Acute EC50 6000 ug/L Fresh water | Daphnia - Daphnia magna - Juvenile (Fledgling, Hatchling, Weanling) | 48 hours |
| 2-Nitropropane Phenol | Acute LC50 15.5 ppm Marine water | Crustaceans - Palaemonetes pugio - Adult | 48 hours |
| | Acute LC50 5500 ug/L Fresh water | Fish - Oncorhynchus kisutch - Fry - 1 g | 96 hours |
| | Chronic NOEC 28000 ug/L Fresh water | Daphnia - Daphnia magna - <=24 hours | 48 hours |
| | Acute LC50 <210000 ug/L Fresh water | Fish - Pimephales promelas | 96 hours |
| | Acute EC50 61.1 ug/L Fresh water | Algae - Pseudokirchneriella subcapitata - 4 to 7 days | 96 hours |
| | Acute EC50 10 ppm Marine water | Aquatic plants - Macrocystis pyrifera - Young | 4 days |
| | Acute LC50 1500000 ug/L Fresh water | Aquatic plants - Lemna minor | 72 hours |
| Acute LC50 800 ug/L Marine water | Crustaceans - Archaeomysis kokuboi - Juvenile (Fledgling, Hatchling, Weanling) | 48 hours | |
| Phenol | Acute LC50 3000 ug/L Fresh water | Daphnia - Ceriodaphnia dubia - <24 hours | 48 hours |
| | Acute LC50 1.75 ug/L Fresh water | Fish - Cyprinus carpio - Larvae - 8 mm | 96 hours |
| | Chronic NOEC 2200 ug/L Fresh water | Daphnia - Daphnia magna - <=24 hours | 48 hours |

12.2 Persistence and degradability

Remarks : Not available.

12.3 Bioaccumulative potential

| Product/ingredient name | LogP _{ow} | BCF | Potential |
|-------------------------|--------------------|-----|-----------|
| Ethyl Alcohol | -0.32 | - | low |
| Toluene | 2.69 | - | low |
| 2-Nitropropane | 0.93 | - | low |
| Phenol | 1.46 | - | low |

12.4 Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

Mobility : Not available.

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

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

Product

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. This material and its container must be disposed of in a safe way. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Empty containers or liners may retain some product residues. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor.

Hazardous waste : The classification of the product may meet the criteria for a hazardous waste.





Packaging

SECTION 13: Disposal considerations

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special precautions : This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

| | ADR/RID | ADN/ADNR | IMDG | IATA |
|--|--|--|---|--|
| 14.1 UN number | UN1993 | UN1993 | UN1993 | UN1993 |
| 14.2 UN proper shipping name | FLAMMABLE LIQUIDS, N.O.S. (Ethyl Alcohol, Toluene) | FLAMMABLE LIQUIDS, N.O.S. (Ethyl Alcohol, Toluene) | FLAMMABLE LIQUIDS, N.O.S. (Ethyl Alcohol, Toluene) | FLAMMABLE LIQUIDS, N.O.S. (Ethyl Alcohol, Toluene) |
| 14.3 Transport hazard class(es) | 3  | 3  | 3  | 3  |
| 14.4 Packing group | II | II | II | II |
| 14.5 Environmental hazards | No. | Yes. | No. | No. |
| 14.6 Special precautions for user | Not available. | Not available. | Not available. | Not available. |
| Additional information | Special provisions 640 (D) Tunnel code (D/E) | - | - | - |

PG* : Packing group

Exemption to the above classification may apply.

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

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 : Restricted to professional users.

Other EU regulations

Europe inventory : All components are listed or exempted.

Black List Chemicals : Not listed

Priority List Chemicals : Listed

Integrated pollution prevention and control list (IPPC) - Air : Not listed

SECTION 15: Regulatory information

Integrated pollution prevention and control list (IPPC) - Water : Not listed

| Product/ingredient name | Carcinogenic effects | Mutagenic effects | Developmental effects | Fertility effects |
|-------------------------|----------------------|-------------------|-----------------------|-------------------|
| Toluene | - | - | Repr. Cat. 3; R63 | - |
| 2-Nitropropane | Carc. Cat. 2; R45 | - | - | - |
| Phenol | - | Muta. Cat. 3; R68 | - | - |

| Product/ingredient name | List name | Name on list | Classification | Notes |
|-------------------------|--|----------------------|----------------|-------|
| 2-Nitropropane | UK Occupational Exposure Limits EH40 - WEL | 2-nitropropane; 2-NP | Carc. | - |

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

SECTION 16: Other information

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

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

Flam. Liq. 2, H225
 Acute Tox. 4, H302
 Acute Tox. 4, H332
 Skin Irrit. 2, H315
 Eye Irrit. 2, H319
 Carc. 1B, H350
 Repr. 2, H361d
 STOT SE 3, H336
 STOT RE 2, H373
 Aquatic Acute 1, H400

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

| Classification | Justification |
|--|---|
| Flam. Liq. 2, H225 Acute Tox. 4, H302 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Carc. 1B, H350 Repr. 2, H361d STOT SE 3, H336 STOT RE 2, H373 Aquatic Acute 1, H400 | On basis of test data Calculation method Calculation method Calculation method Calculation method Calculation method Calculation method Calculation method Calculation method Calculation method |

Full text of abbreviated H statements :

- H225 Highly flammable liquid and vapour.
- H226 Flammable liquid and vapour.
- H301 Toxic if swallowed.
- H302 Harmful if swallowed.
- H304 May be fatal if swallowed and enters airways.
- H311 Toxic in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H330 Fatal if inhaled.
- H331 Toxic if inhaled.
- H332 Harmful if inhaled.
- H336 May cause drowsiness or dizziness.

SECTION 16: Other information

H341 Suspected of causing genetic defects.
 H350 May cause cancer.
 H361d Suspected of damaging the unborn child.
 H373 May cause damage to organs through prolonged or repeated exposure.
 H400 Very toxic to aquatic life.

Full text of classifications [CLP/GHS] :

| | |
|-----------------------|--|
| Acute Tox. 1, H330 | ACUTE TOXICITY: INHALATION - Category 1 |
| Acute Tox. 3, H301 | ACUTE TOXICITY: ORAL - Category 3 |
| Acute Tox. 3, H311 | ACUTE TOXICITY: SKIN - Category 3 |
| Acute Tox. 3, H331 | ACUTE TOXICITY: INHALATION - Category 3 |
| Acute Tox. 4, H302 | ACUTE TOXICITY: ORAL - Category 4 |
| Acute Tox. 4, H332 | ACUTE TOXICITY: INHALATION - Category 4 |
| Aquatic Acute 1, H400 | AQUATIC TOXICITY (ACUTE) - Category 1 |
| Asp. Tox. 1, H304 | ASPIRATION HAZARD - Category 1 |
| Carc. 1B, H350 | CARCINOGENICITY - Category 1B |
| Eye Dam. 1, H318 | SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 |
| Eye Irrit. 2, H319 | SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 |
| Flam. Liq. 2, H225 | FLAMMABLE LIQUIDS - Category 2 |
| Flam. Liq. 3, H226 | FLAMMABLE LIQUIDS - Category 3 |
| Muta. 2, H341 | GERM CELL MUTAGENICITY - Category 2 |
| Repr. 2, H361d | TOXIC TO REPRODUCTION [Unborn child] - Category 2 |
| Skin Corr. 1B, H314 | SKIN CORROSION/IRRITATION - Category 1B |
| Skin Irrit. 2, H315 | SKIN CORROSION/IRRITATION - Category 2 |
| STOT RE 2, H373 | SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 |
| STOT SE 3, H336 | SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) [Narcotic effects] - Category 3 |

Full text of abbreviated R phrases :

R11- Highly flammable.
 R10- Flammable.
 R45- May cause cancer.
 R68- Possible risk of irreversible effects.
 R63- Possible risk of harm to the unborn child.
 R23/24/25- Also toxic by inhalation, in contact with skin and if swallowed.
 R20/22- Also harmful by inhalation and if swallowed.
 R48/20- Also harmful: danger of serious damage to health by prolonged exposure through inhalation.
 R48/20/21/22- Also harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.
 R65- Also harmful: may cause lung damage if swallowed.
 R34- Causes burns.
 R38- Irritating to skin.
 R67- Vapours may cause drowsiness and dizziness.

Full text of classifications [DSD/DPD] :

F - Highly flammable
 Carc. Cat. 2 - Carcinogen category 2
 Muta. Cat. 3 - Mutagen category 3
 Repr. Cat. 3 - Toxic to reproduction category 3
 T - Toxic
 C - Corrosive
 Xn - Harmful
 Xi - Irritant

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SECTION 16: Other information



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