

SAFETY DATA SHEET

600 Liquid Adhesive Quick Dry

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

Identification of the substance or preparation

Product name : 600 Liquid Adhesive Quick Dry
Chemical name : Aromatic hydrocarbon adhesive
Product type : Liquid.
Use of the substance/preparation : Adhesive for the metal surface and Polyguard membranes.
Supplier/Manufacturer : Polyguard Products
 3801 South Business 45
 Ennis, TX 75119
 Tel: (800)541-4994
e-mail address of person responsible for this SDS : Chris@polyguardproduct.com
Emergency telephone number (with hours of operation) : CHEMTREC, U.S. : +1-800-424-9300 International: +1-703-527-3887

2. HAZARDS IDENTIFICATION

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

Classification : F; R11
 Repr. Cat. 3; R63
 Xn; R48/20
 Xi; R38
 R67

Physical/chemical hazards : Highly flammable.

Human health hazards : Possible risk of harm to the unborn child. Harmful: danger of serious damage to health by prolonged exposure through inhalation. Irritating to skin. Vapours may cause drowsiness and dizziness.

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/preparation : Preparation

| Ingredient name | CAS number | % | EC number | Classification |
|--|------------|----------|-----------|---|
| United Kingdom (UK) | | | | |
| Toluene | 108-88-3 | 60 - 100 | 203-625-9 | F; R11 [1][2] Repr. Cat. 3; R63 Xn; R48/20, R65 Xi; R38 R67 |
| Methyl ethyl ketone | 78-93-3 | 1 - 5 | 201-159-0 | F; R11 [1][2] Xi; R36 R66, R67 |
| Solvent naphtha (petroleum), medium aliph. | 64742-88-7 | 1 - 5 | 265-191-7 | Xn; R65 [1] |
| Carbon Black | 1333-86-4 | 1 - 5 | 215-609-9 | Not classified. [2] |
| Austria | | | | |

3. COMPOSITION/INFORMATION ON INGREDIENTS

| | | | | | |
|--|------------|----------|-----------|--|--------|
| Toluene | 108-88-3 | 60 - 100 | 203-625-9 | F; R11 Repr. Cat. 3; R63 Xn; R48/20, R65 Xi; R38 R67 | [1][2] |
| Methyl ethyl ketone | 78-93-3 | 1 - 5 | 201-159-0 | F; R11 Xi; R36 R66, R67 | [1][2] |
| Solvent naphtha (petroleum), medium aliph. | 64742-88-7 | 1 - 5 | 265-191-7 | Xn; R65 | [1] |
| Germany | | | | | |
| Toluene | 108-88-3 | 60 - 100 | 203-625-9 | F; R11 Repr. Cat. 3; R63 Xn; R48/20, R65 Xi; R38 R67 | [1][2] |
| Methyl ethyl ketone | 78-93-3 | 1 - 5 | 201-159-0 | F; R11 Xi; R36 R66, R67 | [1][2] |
| Solvent naphtha (petroleum), medium aliph. | 64742-88-7 | 1 - 5 | 265-191-7 | Xn; R65 | [1] |
| France | | | | | |
| Toluene | 108-88-3 | 60 - 100 | 203-625-9 | F; R11 Repr. Cat. 3; R63 Xn; R48/20, R65 Xi; R38 R67 | [1][2] |
| Methyl ethyl ketone | 78-93-3 | 1 - 5 | 201-159-0 | F; R11 Xi; R36 R66, R67 | [1][2] |
| Solvent naphtha (petroleum), medium aliph. | 64742-88-7 | 1 - 5 | 265-191-7 | Xn; R65 | [1] |
| Carbon Black | 1333-86-4 | 1 - 5 | 215-609-9 | Not classified. | [2] |
| Italy | | | | | |
| Toluene | 108-88-3 | 60 - 100 | 203-625-9 | F; R11 Repr. Cat. 3; R63 Xn; R48/20, R65 Xi; R38 R67 | [1][2] |
| Methyl ethyl ketone | 78-93-3 | 1 - 5 | 201-159-0 | F; R11 Xi; R36 R66, R67 | [1][2] |
| Solvent naphtha (petroleum), medium aliph. | 64742-88-7 | 1 - 5 | 265-191-7 | Xn; R65 | [1] |
| Netherlands | | | | | |
| Toluene | 108-88-3 | 75-90 | 203-625-9 | F; R11 Repr. Cat. 3; R63 Xn; R48/20, R65 Xi; R38 R67 | [1][2] |
| Methyl ethyl ketone | 78-93-3 | 1-5 | 201-159-0 | F; R11 | [1][2] |

3. COMPOSITION/INFORMATION ON INGREDIENTS

| | | | | | |
|---|-------------------------|----------------|------------------------|--|------------|
| Solvent naphtha (petroleum), medium aliph. Norway | 64742-88-7 | <10 | 265-191-7 | Xi; R36 R66, R67 Xn; R65 | [1] |
| Toluene | 108-88-3 | 60 - 100 | 203-625-9 | F; R11 Repr. Cat. 3; R63 Xn; R48/20, R65 Xi; R38 R67 | [1] [2] |
| Methyl ethyl ketone | 78-93-3 | 1 - 5 | 201-159-0 | F; R11 Xi; R36 R66, R67 | [1] [2] |
| Solvent naphtha (petroleum), medium aliph. Carbon Black | 64742-88-7 1333-86-4 | 1 - 5 1 - 5 | 265-191-7 215-609-9 | Xn; R65 Not classified. | [1] [2] |
| Spain | | | | | |
| Toluene | 108-88-3 | 60 - 100 | 203-625-9 | F; R11 Repr. Cat. 3; R63 Xn; R48/20, R65 Xi; R38 R67 | [1] [2] |
| Methyl ethyl ketone | 78-93-3 | 1 - 5 | 201-159-0 | F; R11 Xi; R36 R66, R67 | [1] [2] |
| Solvent naphtha (petroleum), medium aliph. Carbon Black | 64742-88-7 1333-86-4 | 1 - 5 1 - 5 | 265-191-7 215-609-9 | Xn; R65 Not classified. | [1] [2] |
| Sweden | | | | | |
| Toluene | 108-88-3 | 75-90 | 203-625-9 | F; R11 Repr. Cat. 3; R63 Xn; R48/20, R65 Xi; R38 R67 | [1] [2] |
| Methyl ethyl ketone | 78-93-3 | 1-5 | 201-159-0 | F; R11 Xi; R36 R66, R67 | [1] [2] |
| Solvent naphtha (petroleum), medium aliph. Turkey | 64742-88-7 | <10 | 265-191-7 | Xn; R65 | [1] |
| Toluene | 108-88-3 | 60 - 100 | 203-625-9 | F; R11 Repr. Cat. 3; R63 Xn; R48/20, R65 Xi; R38 R67 | [1] [2] |
| Methyl ethyl ketone | 78-93-3 | 1 - 5 | 201-159-0 | F; R11 Xi; R36 R66, R67 | [1] [2] |
| Solvent naphtha (petroleum), medium aliph. | 64742-88-7 | 1 - 5 | 265-191-7 | Xn; R65 | [1] |

See section 16 for the full text of the R-phrases declared above

3. COMPOSITION/INFORMATION ON INGREDIENTS

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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

4. FIRST AID MEASURES

- Eye contact** : Check for and remove any contact lenses. In case of contact with eyes, rinse immediately with plenty of water. Get medical attention.
- Skin contact** : In case of contact, immediately flush skin copiously with water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention.
- Inhalation** : If inhaled, remove to fresh air. If not breathing, give artificial respiration. Get medical attention.
- Ingestion** : Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
- Notes to physician** : No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

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

5. FIRE-FIGHTING MEASURES

Extinguishing media

- Suitable** : Use dry chemical, CO₂, water spray (fog) or foam.
- Not suitable** : Do not use water jet.

- Special exposure hazards** : Highly flammable liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapour/gas is heavier than air and will spread along the ground. Vapours may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.

- Hazardous thermal decomposition products** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide

- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions** : 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 (see section 8).

- 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).

Methods for cleaning up

- Small spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor.

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. 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. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

7. HANDLING AND STORAGE

- Handling** : Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Avoid exposure during pregnancy. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. 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.
- Storage** : 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.
- Packaging materials**
- Recommended** : Use original container.
- Danish fire class** : I-1
- Austria - VbF class** : A I
Very dangerous flammable liquid.
- Czech Republic - Storage code** : I

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limit values

| Ingredient name | Occupational exposure limits |
|----------------------------|---|
| United Kingdom (UK) | |
| Toluene | EH40/2005 WELs (United Kingdom (UK), 8/2007). 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). |
| Methyl ethyl ketone | EH40/2005 WELs (United Kingdom (UK), 8/2007). Skin STEL: 899 mg/m ³ 15 minute(s). STEL: 300 ppm 15 minute(s). TWA: 600 mg/m ³ 8 hour(s). TWA: 200 ppm 8 hour(s). |
| Carbon Black | EH40/2005 WELs (United Kingdom (UK), 8/2007). STEL: 7 mg/m ³ 15 minute(s). |

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA: 3.5 mg/m³ 8 hour(s).

Austria

Toluene

GKV_MAK (Austria, 9/2007). Skin

STEL: 380 mg/m³, 4 times per shift, 15 minute(s).

STEL: 100 ppm, 4 times per shift, 15 minute(s).

TWA: 190 mg/m³ 8 hour(s).

TWA: 50 ppm 8 hour(s).

Methyl ethyl ketone

GKV_MAK (Austria, 9/2007). Skin

STEL: 590 mg/m³, 4 times per shift, 30 minute(s).

STEL: 200 ppm, 4 times per shift, 30 minute(s).

TWA: 295 mg/m³ 8 hour(s).

TWA: 100 ppm 8 hour(s).

Germany

Toluene

MAK-Werte Liste (Germany, 7/2007). Skin

PEAK: 760 mg/m³, 4 times per shift, 15 minute(s).

PEAK: 200 ppm, 4 times per shift, 15 minute(s).

TWA: 190 mg/m³ 8 hour(s).

TWA: 50 ppm 8 hour(s).

TRGS900 AGW (Germany, 3/2007). Skin

PEAK: 760 mg/m³ 15 minute(s).

PEAK: 200 ppm 15 minute(s).

TWA: 190 mg/m³ 8 hour(s).

TWA: 50 ppm 8 hour(s).

Methyl ethyl ketone

MAK-Werte Liste (Germany, 7/2007). Skin

PEAK: 600 mg/m³, 4 times per shift, 15 minute(s).

PEAK: 200 ppm, 4 times per shift, 15 minute(s).

TWA: 600 mg/m³ 8 hour(s).

TWA: 200 ppm 8 hour(s).

TRGS900 AGW (Germany, 3/2007). Skin

PEAK: 600 mg/m³ 15 minute(s).

PEAK: 200 ppm 15 minute(s).

TWA: 600 mg/m³ 8 hour(s).

TWA: 200 ppm 8 hour(s).

France

Toluene

INRS (France, 6/2006).

STEL: 550 mg/m³ 15 minute(s).

STEL: 150 ppm 15 minute(s).

TWA: 375 mg/m³ 8 hour(s).

TWA: 100 ppm 8 hour(s).

Methyl ethyl ketone

INRS (France, 6/2006).

STEL: 900 mg/m³ 15 minute(s).

STEL: 300 ppm 15 minute(s).

TWA: 600 mg/m³ 8 hour(s).

TWA: 200 ppm 8 hour(s).

Carbon Black

INRS (France, 6/2006).

TWA: 3.5 mg/m³ 8 hour(s).

Italy

Toluene

EU OEL (Europe, 5/2006). Skin

limit value short term: 384 mg/m³ 15 minute(s).

limit value short term: 100 ppm 15 minute(s).

limit value 8 hours: 192 mg/m³ 8 hour(s).

limit value 8 hours: 50 ppm 8 hour(s).

Methyl ethyl ketone

Ministero della Salute (Italy, 3/2004).

STEL: 900 mg/m³ 15 minute(s).

STEL: 300 ppm 15 minute(s).

TWA: 600 mg/m³ 8 hour(s).

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA: 200 ppm 8 hour(s).

Netherlands

Toluene

Nationale MAC-lijst (Netherlands, 10/2007).

MAC-TGG, 8 uur: 150 mg/m³ 8 hour(s).

MAC-TGG, 15 min.: 384 mg/m³ 15 minute(s).

Methyl ethyl ketone

Nationale MAC-lijst (Netherlands, 10/2007). Skin

MAC-TGG, 15 min.: 900 mg/m³ 15 minute(s).

MAC-TGG, 8 uur: 590 mg/m³ 8 hour(s).

Norway

Toluene

Arbeidstilsynet (Norway, 6/2007). Skin

TWA: 94 mg/m³ 8 hour(s).

TWA: 25 ppm 8 hour(s).

Methyl ethyl ketone

Arbeidstilsynet (Norway, 6/2007).

TWA: 220 mg/m³ 8 hour(s).

TWA: 75 ppm 8 hour(s).

Carbon Black

Arbeidstilsynet (Norway, 6/2007).

TWA: 3.5 mg/m³ 8 hour(s).

Spain

Toluene

INSHT (Spain, 1/2007). Skin

TWA: 192 mg/m³ 8 hour(s).

TWA: 50 ppm 8 hour(s).

STEL: 384 mg/m³ 15 minute(s).

STEL: 100 ppm 15 minute(s).

Methyl ethyl ketone

INSHT (Spain, 1/2007).

STEL: 900 mg/m³ 15 minute(s).

STEL: 300 ppm 15 minute(s).

TWA: 600 mg/m³ 8 hour(s).

TWA: 200 ppm 8 hour(s).

Carbon Black

INSHT (Spain, 1/2007).

TWA: 3.5 mg/m³ 8 hour(s).

Sweden

Toluene

AFS 2005:17 (Sweden, 6/2007). Skin

STEL: 400 mg/m³ 15 minute(s).

STEL: 100 ppm 15 minute(s).

TWA: 200 mg/m³ 8 hour(s).

TWA: 50 ppm 8 hour(s).

Methyl ethyl ketone

AFS 2005:17 (Sweden, 6/2007).

STEL: 300 mg/m³ 15 minute(s).

STEL: 100 ppm 15 minute(s).

TWA: 150 mg/m³ 8 hour(s).

TWA: 50 ppm 8 hour(s).

Turkey

Toluene

EU OEL (Europe, 5/2006). Skin

limit value short term: 384 mg/m³ 15 minute(s).

limit value short term: 100 ppm 15 minute(s).

limit value 8 hours: 192 mg/m³ 8 hour(s).

limit value 8 hours: 50 ppm 8 hour(s).

Methyl ethyl ketone

EU OEL (Europe, 5/2006).

limit value short term: 900 mg/m³ 15 minute(s).

limit value short term: 300 ppm 15 minute(s).

limit value 8 hours: 600 mg/m³ 8 hour(s).

limit value 8 hours: 200 ppm 8 hour(s).

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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.

Exposure controls

Occupational exposure 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. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Respiratory protection : Vapour respirator.

Hand protection : Chemical-resistant gloves

Eye protection : Safety glasses with side shields.

Skin protection : Overalls buttoned to the neck and wrist.



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

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

General information

Appearance

Physical state : Liquid.

Colour : Black.

Odour : Hydrocarbon. [Strong]

Important health, safety and environmental information

Boiling point : 41°C (105.8°F)

Flash point : Open cup: -8.33°C (17°F) [Cleveland.]

Explosion limits : Lower: 1.2%
Upper: 9%

Vapour pressure : 20.3 kPa (152 mm Hg)

Relative density : 0.9

Solubility : Partially soluble in the following materials: cold water and hot water.

Viscosity : Not available.

Vapour density : 3.5 [Air = 1]

Evaporation rate (butyl acetate = 1) : 4.5 (Ether (anhydrous). = 1)

10. STABILITY AND REACTIVITY

- Stability** : The product is stable. Under normal conditions of storage and use, hazardous polymerisation will not occur.
- 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. Do not allow vapor to accumulate in low or confined areas. Avoid exposure during pregnancy.
- Materials to avoid** : Reactive or incompatible with the following materials: oxidizing materials, acids and alkalis.
- Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. TOXICOLOGICAL INFORMATION

Potential acute health effects

- Inhalation** : Vapours may cause drowsiness and dizziness.
- Ingestion** : Irritating to mouth, throat and stomach.
- Skin contact** : Irritating to skin.
- Eye contact** : May cause eye irritation.

Acute toxicity

| Product/ingredient name | Species | Dose | Result | Exposure |
|-------------------------|---------|--------------|-------------|----------|
| Toluene | Rabbit | 14100 uL/kg | LD50 Dermal | - |
| | Rat | 636 mg/kg | LD50 Oral | - |
| Methyl ethyl ketone | Rabbit | 6480 mg/kg | LD50 Dermal | - |
| | Rat | 2737 mg/kg | LD50 Oral | - |
| Carbon Black | Rabbit | >3 g/kg | LD50 Dermal | - |
| | Rat | >15400 mg/kg | LD50 Oral | - |

Potential chronic health effects

Reproductive toxicity

| Product name | List name | Name on list | Classification | Notes |
|--|-------------------------------------|--|-----------------------------|-------|
| France Toluene | France Occupational Exposure Limits | toluène | Repro. R3 | |
| Netherlands Toluene | Netherlands Reprotoxic Chemicals | tolueen | Dev. development category 3 | |
| Solvent naphtha (petroleum), medium aliph. | Netherlands Carcinogenic Chemicals | (complexe) aardolie- en steenkoolderivaten EG nrs. beginnend met 263, 265-275, 277, 278, 283-285, 287, 289, 291-298, 300, 302, 305-310 en EG-nr. 232-489-3 | Carc. | |

- Chronic effects** : Harmful: danger of serious damage to health by prolonged exposure through inhalation.
- Carcinogenicity** : No known significant effects or critical hazards.
- 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.

11. TOXICOLOGICAL INFORMATION

Denmark – Carcinogen list : Contains a substance or substances listed under National Working Environment Authorities Executive Order 140/1997.

Over-exposure signs/symptoms

Inhalation : Adverse symptoms may include the following:
nausea or vomiting
headache
drowsiness/fatigue
dizziness/vertigo

Ingestion : No specific data.

Skin : Adverse symptoms may include the following:
irritation
redness

Eyes : No specific data.

Target organs : Contains material which causes damage to the following organs: kidneys, lungs, liver, peripheral nervous system, upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea.

12. ECOLOGICAL INFORMATION

Environmental effects : No known significant effects or critical hazards.

Aquatic ecotoxicity

| Product/ingredient name | Test / Type | Species | Dose | Exposure |
|-------------------------|--------------------------------|-------------|------|----------|
| Toluene | Acute EC50 19600 ug/L | Daphnia | - | 48 hours |
| | Acute EC50 6000 ug/L | Daphnia | - | 48 hours |
| | Acute LC50 15.5 ppm | Crustaceans | - | 48 hours |
| | Acute LC50 15.53 to 17.16 mg/L | Fish | - | 96 hours |
| | Acute LC50 13 to 15 mg/L | Fish | - | 96 hours |
| | Acute LC50 7.3 ul/L | Fish | - | 96 hours |
| Methyl ethyl ketone | Acute LC50 3220 to 3320 mg/l | Fish | - | 96 hours |
| | Acute LC50 >520000 ug/L | Daphnia | - | 48 hours |

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



13. DISPOSAL CONSIDERATIONS

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.



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

14. TRANSPORT INFORMATION

International transport regulations

| Regulatory information | UN number | Proper shipping name | Classes | PG* | Label | Additional information |
|------------------------|-----------|----------------------|---------|-----|---|------------------------|
| ADR/RID Class | UN1139 | COATING SOLUTION | 3 | II |  | - |
| ADNR Class | UN1139 | COATING SOLUTION | 3 | II |  | - |

14. TRANSPORT INFORMATION

| | | | | | | |
|-------------------|--------|------------------|---|----|---|---|
| IMDG Class | UN1139 | COATING SOLUTION | 3 | II |  | - |
| IATA Class | UN1139 | COATING SOLUTION | 3 | II |  | - |

PG* : Packing group

15. REGULATORY INFORMATION**EU regulations**

Classification and labeling have been determined according to EU Directives 67/548/EEC and 1999/45/EC (including amendments) and take into account the intended product use.

Hazard symbol or symbols :



Highly flammable, Harmful

Risk phrases

- : R11- Highly flammable.
- R63- Possible risk of harm to the unborn child.
- R48/20- Harmful: danger of serious damage to health by prolonged exposure through inhalation.
- R38- Irritating to skin.
- R67- Vapours may cause drowsiness and dizziness.

Safety phrases

- : S36/37- Wear suitable protective clothing and gloves.

Contains

- : Toluene

Product use

- : Industrial applications.

Europe inventory

- : All components are listed or exempted.

National regulations**Norway**

Hazard symbol or symbols :



Highly flammable, Harmful

Risk phrases

- : R11- Highly flammable.
- R63- Possible risk of harm to the unborn child.
- R48/20- Harmful: danger of serious damage to health by prolonged exposure through inhalation.
- R38- Irritating to skin.
- R67- Vapours may cause drowsiness and dizziness.

Safety phrases

- : S36/37- Wear suitable protective clothing and gloves.

Carcinogenic class

- : Not classified.

Contains

- : Toluene

France

Social Security Code, Articles L 461-1 to L 461-7

- : Toluene 4bis, 84
- Butanone 84

Reinforced medical surveillance

- : Act of July 11, 1977 determining the list of activities which require reinforced medical surveillance: not applicable

Germany

15. REGULATORY INFORMATION

Hazardous incident ordinance : Applicable. Category: 7b Highly flammable liquid.

Hazard class for water : 2 Appendix No. 4

Technical instruction on air quality control : TA-Luft Number 5.2.8: 80.6%

Austria

Limitation of the use of organic solvents : Permitted.

Italy

Emission control directive : 86.47% Not classified.

16. OTHER INFORMATION

Full text of R-phrases referred to in sections 2 and 3 - United Kingdom (UK) : R11- Highly flammable.
R63- Possible risk of harm to the unborn child.
R48/20- Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R65- Harmful: may cause lung damage if swallowed.
R36- Irritating to eyes.
R38- Irritating to skin.
R66- Repeated exposure may cause skin dryness or cracking.
R67- Vapours may cause drowsiness and dizziness.

Full text of classifications referred to in sections 2 and 3 - United Kingdom (UK) : F - Highly flammable
Repr. Cat. 3 - Toxic to reproduction Category 3
Xn - Harmful
Xi - Irritant

Full text of R-phrases referred to in sections 2 and 3 - Austria : R11- Highly flammable.
R63- Possible risk of harm to the unborn child.
R48/20- Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R65- Harmful: may cause lung damage if swallowed.
R36- Irritating to eyes.
R38- Irritating to skin.
R66- Repeated exposure may cause skin dryness or cracking.
R67- Vapours may cause drowsiness and dizziness.

Full text of classifications referred to in sections 2 and 3 - Austria : F - Highly flammable
Repr. Cat. 3 - Toxic to reproduction Category 3
Xn - Harmful
Xi - Irritant

Full text of R-phrases referred to in sections 2 and 3 - Germany : R11- Highly flammable.
R63- Possible risk of harm to the unborn child.
R48/20- Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R65- Harmful: may cause lung damage if swallowed.
R36- Irritating to eyes.
R38- Irritating to skin.
R66- Repeated exposure may cause skin dryness or cracking.
R67- Vapours may cause drowsiness and dizziness.

Full text of classifications referred to in sections 2 and 3 - Germany : F - Highly flammable
Repr. Cat. 3 - Toxic to reproduction Category 3
Xn - Harmful
Xi - Irritant

16. OTHER INFORMATION

- Full text of R-phrases referred to in sections 2 and 3 - France** : R11- Highly flammable.
R63- Possible risk of harm to the unborn child.
R48/20- Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R65- Harmful: may cause lung damage if swallowed.
R36- Irritating to eyes.
R38- Irritating to skin.
R66- Repeated exposure may cause skin dryness or cracking.
R67- Vapours may cause drowsiness and dizziness.
- Full text of classifications referred to in sections 2 and 3 - France** : F - Highly flammable
Repr. Cat. 3 - Toxic to reproduction Category 3
Xn - Harmful
Xi - Irritant
- Full text of R-phrases referred to in sections 2 and 3 - Italy** : R11- Highly flammable.
R63- Possible risk of harm to the unborn child.
R48/20- Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R65- Harmful: may cause lung damage if swallowed.
R36- Irritating to eyes.
R38- Irritating to skin.
R66- Repeated exposure may cause skin dryness or cracking.
R67- Vapours may cause drowsiness and dizziness.
- Full text of classifications referred to in sections 2 and 3 - Italy** : F - Highly flammable
Repr. Cat. 3 - Toxic to reproduction Category 3
Xn - Harmful
Xi - Irritant
- Full text of R-phrases referred to in sections 2 and 3 - Netherlands** : R11- Highly flammable.
R63- Possible risk of harm to the unborn child.
R48/20- Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R65- Harmful: may cause lung damage if swallowed.
R36- Irritating to eyes.
R38- Irritating to skin.
R66- Repeated exposure may cause skin dryness or cracking.
R67- Vapours may cause drowsiness and dizziness.
- Full text of classifications referred to in sections 2 and 3 - Netherlands** : F - Highly flammable
Repr. Cat. 3 - Toxic to reproduction Category 3
Xn - Harmful
Xi - Irritant
- Full text of R-phrases referred to in sections 2 and 3 - Norway** : R11- Highly flammable.
R63- Possible risk of harm to the unborn child.
R48/20- Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R65- Harmful: may cause lung damage if swallowed.
R36- Irritating to eyes.
R38- Irritating to skin.
R66- Repeated exposure may cause skin dryness or cracking.
R67- Vapours may cause drowsiness and dizziness.
- Full text of classifications referred to in sections 2 and 3 - Norway** : F - Highly flammable
Repr. Cat. 3 - Toxic to reproduction Category 3
Xn - Harmful
Xi - Irritant

16. OTHER INFORMATION

- Full text of R-phrases referred to in sections 2 and 3 - Spain** : R11- Highly flammable.
R63- Possible risk of harm to the unborn child.
R48/20- Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R65- Harmful: may cause lung damage if swallowed.
R36- Irritating to eyes.
R38- Irritating to skin.
R66- Repeated exposure may cause skin dryness or cracking.
R67- Vapours may cause drowsiness and dizziness.
- Full text of classifications referred to in sections 2 and 3 - Spain** : F - Highly flammable
Repr. Cat. 3 - Toxic to reproduction Category 3
Xn - Harmful
Xi - Irritant
- Full text of R-phrases referred to in sections 2 and 3 - Sweden** : R11- Highly flammable.
R63- Possible risk of harm to the unborn child.
R48/20- Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R65- Harmful: may cause lung damage if swallowed.
R36- Irritating to eyes.
R38- Irritating to skin.
R66- Repeated exposure may cause skin dryness or cracking.
R67- Vapours may cause drowsiness and dizziness.
- Full text of classifications referred to in sections 2 and 3 - Sweden** : F - Highly flammable
Repr. Cat. 3 - Toxic to reproduction Category 3
Xn - Harmful
Xi - Irritant
- Full text of R-phrases referred to in sections 2 and 3 - Turkey** : R11- Highly flammable.
R63- Possible risk of harm to the unborn child.
R48/20- Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R65- Harmful: may cause lung damage if swallowed.
R36- Irritating to eyes.
R38- Irritating to skin.
R66- Repeated exposure may cause skin dryness or cracking.
R67- Vapours may cause drowsiness and dizziness.
- Full text of classifications referred to in sections 2 and 3 - Turkey** : F - Highly flammable
Repr. Cat. 3 - Toxic to reproduction Category 3
Xn - Harmful
Xi - Irritant
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- Date of issue** : 06/30/2008
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