

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 16.10.2009

Revision: 16.10.2009

1 Identification of the substance/preparation and of the company/undertaking

- **Product details**
- **Trade name:** Standard Thinner
666 Cleaning Solvent
- **Application of the substance / the preparation** Gun cleaner, Primer thinner
- **Supplier:**
Hammond Chemicals Limited
Canal Street
Brierly Hill
West Midlands
DY5 1JR
Tel.: 01384 480600
Fax.: 01384 480680
email: sales.office@hammondchemicals.co.uk
- **Further information obtainable from:** Contact us at the above office.
- **Information in case of emergency:** Contact us as above

2 Hazards identification

· **Hazard description:**



Xn Harmful
F Highly flammable
N Dangerous for the environment

· **Information concerning particular hazards for human and environment:**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

Vapours of the product are heavier than air and may accumulate on the ground, in the sump of pits, drains or cellars with higher concentrations. Ground level ventilation is recommended.

May have a narcotizing effect after prolonged exposure (see R67)

R 11 Highly flammable.

R 20 Harmful by inhalation.

R 36/38 Irritating to eyes and skin.

R 48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.

R 62 Possible risk of impaired fertility.

R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R 63 Possible risk of harm to the unborn child.

R 65 Harmful: may cause lung damage if swallowed.

R 67 Vapours may cause drowsiness and dizziness.

Restricted to professional users.

· **Classification system:**

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

3 Composition/information on ingredients

· **Chemical characterization**

· **Description:** Mixture of substances listed below with nonhazardous additions.

· **Dangerous components:**

CAS: 108-88-3	toluene	25-50%
EINECS: 203-625-9	Repr. Cat. 3; Xn, Xi, F; R 11-38-48/20-63-65-67	

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CAS: 67-64-1 EINECS: 200-662-2	acetone ☒ Xi, ☒ F; R 11-36-66-67	25-50%
CAS: 1330-20-7 EINECS: 215-535-7	xylene ☒ Xn, ☒ Xi; R 10-20/21-38	≤ 10%
CAS: 141-78-6 EINECS: 205-500-4	ethyl acetate ☒ Xi, ☒ F; R 11-36-66-67	≤ 10%
CAS: 79-20-9 EINECS: 201-185-2	methyl acetate ☒ Xi, ☒ F; R 11-36-66-67	≤ 10%
CAS: 142-82-5 EINECS: 205-563-8	heptane ☒ Xn, ☒ Xi, ☒ F, ☒ N; R 11-38-50/53-65-67	≤ 10%
CAS: 71-36-3 EINECS: 200-751-6	butan-1-ol ☒ Xn, ☒ Xi; R 10-22-37/38-41-67	≤ 10%
CAS: 110-54-3 EINECS: 203-777-6	n-hexane Repr. Cat. 3; ☒ Xn, ☒ Xi, ☒ F, ☒ N; R 11-38-48/20-62-51/53-65-67	≤ 10%

· **Additional information:** For the wording of the listed risk phrases refer to section 16.

4 First aid measures

· **General information:**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· **After inhalation:**

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. In case of unconsciousness place patient stably in side position for transportation. Seek immediate medical advice.

· **After skin contact:**

Immediately wash with water and soap and rinse thoroughly. Remove contaminated clothing. Repeated skin contact may result in irritation and dermatitis. Always wear protective gloves suitable for this product.

· **After eye contact:**

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor. Call a doctor immediately. Seek immediate medical advice.

· **After swallowing:** Do not induce vomiting; rinse mouth with water, call for medical help immediately.

· **Information for doctor:** Risk of lung aspiration due to low viscosity of product.

· **The following symptoms may occur:**

Headache
Dizziness
Nausea

5 Fire-fighting measures

· **Suitable extinguishing agents:**

CO₂, powder or water spray (Do not use different types of extinguisher on the same fire/spillage). Fight larger fires with aqueous film forming foam (AFFF). Cool containers with water spray. CO₂, sand, extinguishing powder. Do not use water.

· **For safety reasons unsuitable extinguishing agents:** Water with full jet

· **Protective equipment:**

Respiratory protective device.

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Wear self-contained respiratory protective device.

· **Additional information**

Cool endangered receptacles with water spray.

Collect contaminated fire fighting water separately. It must not enter the sewage system.

6 Accidental release measures

· **Person-related safety precautions:**

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Keep people at a distance and stay on the windward side.

Keep away from ignition sources.

Wear protective clothing.

· **Measures for environmental protection:**

Inform respective authorities in case of seepage into water course or sewage system.

In case of seepage into the ground inform responsible authorities.

Do not allow to enter sewers/ surface or ground water.

· **Measures for cleaning/collecting:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents

Send for recovery or disposal in suitable receptacles.

Blanket spillage with AFFF Foam Spray to seal from sources of ignition as a precautionary measure.

7 Handling and storage

· **Handling:**

· **Information for safe handling:**

Store in cool, dry place in tightly closed receptacles.

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Take note of emission threshold.

Use only in well ventilated areas.

Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).

· **Information about fire - and explosion protection:**

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Do not spray onto a naked flame or any incandescent material.

Flammable gas-air mixtures may form in empty receptacles.

Wear shoes with conductive soles.

· **Storage:**

· **Requirements to be met by storerooms and receptacles:**

Store in a cool location.

Provide solvent resistant, sealed floor.

Prevent any seepage into the ground.

Provide ventilation for receptacles.

Use only receptacles specifically permitted for this substance/product.

Unsuitable material for receptacle: aluminium.

Store in area marked with EX signs under Dangerous Substances and Explosive Atmosphere Regs.

Follow HSE guidance for storage of flammable substances.

Flameproof/explosion proof electrical equipment must be used (ATEX Regulations)

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Only store in suitable bunded storage areas. Do not store plastic IBC's with metal drums of other flammable substances.

· **Information about storage in one common storage facility:**

Do not store together with alkalis (caustic solutions).

Store away from oxidizing agents.

· **Further information about storage conditions:**

Keep container tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

Store receptacle in a well ventilated area.

Store in a cool place.

You are recommended to refer to HSE publications HSG51 - The Storage of Flammable Liquids in Containers; and HSG140 - The Safe Use and Handling of Flammable Liquids, for more detailed understanding of the practices to be adhered to.

Plastic IBC's risk sudden and total loss of product in event of fire. Ensure bunded areas are adequate.

Do not store plastic IBC's with other packaged flammable goods.

8 Exposure controls/personal protection

· **Additional information about design of technical facilities:** No further data; see item 7.

· **Ingredients with limit values that require monitoring at the workplace:**

108-88-3 toluene

WEL Short-term value: 384 mg/m³, 100 ppm

Long-term value: 191 mg/m³, 50 ppm

Sk

67-64-1 acetone

WEL Short-term value: 3620 mg/m³, 1500 ppm

Long-term value: 1210 mg/m³, 500 ppm

1330-20-7 xylene

WEL Short-term value: 441 mg/m³, 100 ppm

Long-term value: 220 mg/m³, 50 ppm

Sk; BMGV

141-78-6 ethyl acetate

WEL Short-term value: 400 ppm

Long-term value: 200 ppm

79-20-9 methyl acetate

WEL Short-term value: 770 mg/m³, 250 ppm

Long-term value: 616 mg/m³, 200 ppm

142-82-5 heptane

WEL Long-term value: 500 ppm

71-36-3 butan-1-ol

WEL Short-term value: 154 mg/m³, 50 ppm

Sk

110-54-3 n-hexane

WEL Long-term value: 72 mg/m³, 20 ppm

· **Additional information:** The lists valid during the making were used as basis.

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· **Personal protective equipment:**

· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.
 Immediately remove all soiled and contaminated clothing
 Wash hands before breaks and at the end of work.
 Avoid contact with the eyes and skin.
 Avoid alcohol consumption while working with the product.

· **Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

· **Recommended filter device for short term use:** Filter AX

· **Protection of hands:**



Protective gloves

Solvent resistant gloves. Use gloves approved to BS EN 364 Chemical Resistant Gloves.
 The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
 Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

Fluorocarbon rubber (Viton)

PVA gloves

Butyl rubber, BR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**



Tightly sealed goggles

· **Body protection:** Protective work clothing

· **Risk management measures**

Carry out risk assessment under Dangerous Substances and Explosive Atmospheres Regulations (DSEAR)

9 Physical and chemical properties

· **General Information**

Form:	Liquid
Colour:	According to product specification
Odour:	Characteristic

· **Change in condition**

Melting point/Melting range: Undetermined.

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Boiling point/Boiling range: 55°C	
· Flash point:	-19°C
· Ignition temperature:	215°C
· Self-igniting:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· Explosion limits:	
Lower:	1.1 Vol %
Upper:	16.0 Vol %
· Vapour pressure at 20°C:	233 hPa
· Density at 20°C:	0.83 g/cm ³
· Solubility in / Miscibility with water:	Not miscible or difficult to mix.
· Solvent content:	
Organic solvents:	100.0 %
VOC (EC)	100.00 %

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Dangerous reactions** No dangerous reactions known.
- **Dangerous decomposition products:** Carbon monoxide if incomplete combustion.

11 Toxicological information

- **Acute toxicity:**

- **LD/LC50 values relevant for classification:**

108-88-3 toluene

Oral	LD50	5000 mg/kg (rat)
Dermal	LD50	12124 mg/kg (rabbit)
Inhalative	LC50/4 h	5320 mg/l (mouse)

1330-20-7 xylene

Oral	LD50	4300 mg/kg (rat)
Dermal	LD50	2000 mg/kg (rabbit)

- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
Harmful

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Irritant

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12 Ecological information

- **Ecotoxic effects:**
- **Remark:** Toxic for fish
- **General notes:**
 Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
 Do not allow product to reach ground water, water course or sewage system.
 Danger to drinking water if even small quantities leak into the ground.
 Also poisonous for fish and plankton in water bodies.
 Toxic for aquatic organisms

13 Disposal considerations

- **Product:**
- **Recommendation**
 Must not be disposed together with household refuse. Do not allow product to reach sewage system.
- **European waste catalogue** Refer to our office for EWC codes for disposal of used solvent.
- **Uncleaned packaging:**
- **Recommendation:**
 Disposal must be made according to official regulations. Refer to Hazardous Waste Regulations 2005. Requires movement under Consignment note by licensed waste carrier. We can provide this service - please contact us for more details.
 Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning. Please contact us if you wish to return your used drums (205litre only).

14 Transport information

- **Land transport ADR/RID (cross-border)**



- **ADR/RID class:** 3 Flammable liquids.
- **Danger code (Kemler):** 33
- **UN-Number:** 1993
- **Packaging group:** II
- **Hazard label:** 3
- **Special marking:** Symbol (fish and tree)
- **Description of goods:** 1993 FLAMMABLE LIQUID, N.O.S. (ACETONE, TOLUENE), special provision 640D

- **Maritime transport IMDG:**



- **IMDG Class:** 3

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- **UN Number:** 1993
- **Label** 3
- **Packaging group:** II
- **EMS Number:** F-E,S-E
- **Marine pollutant:** No
- **Proper shipping name:** FLAMMABLE LIQUID, N.O.S. (ACETONE, TOLUENE)

- **Air transport ICAO-TI and IATA-DGR:**



- **ICAO/IATA Class:** 3
- **UN/ID Number:** 1993
- **Label** 3
- **Packaging group:** II
- **Proper shipping name:** FLAMMABLE LIQUID, N.O.S. (ACETONE, TOLUENE)

15 Regulatory information

- **Labelling according to EU guidelines:**

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

- **Code letter and hazard designation of product:**

Xn Harmful

F Highly flammable

N Dangerous for the environment

- **Hazard-determining components of labelling:**

toluene

xylene

- **Risk phrases:**

11 Highly flammable.

20 Harmful by inhalation.

36/38 Irritating to eyes and skin.

48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.

62 Possible risk of impaired fertility.

51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

63 Possible risk of harm to the unborn child.

65 Harmful: may cause lung damage if swallowed.

67 Vapours may cause drowsiness and dizziness.

- **Safety phrases:**

9 Keep container in a well-ventilated place.

16 Keep away from sources of ignition - No smoking.

23 Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).

25 Avoid contact with eyes.

36/37 Wear suitable protective clothing and gloves.

57 Use appropriate container to avoid environmental contamination.

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- **Special labelling of certain preparations:**
Restricted to professional users.
- **National regulations:**
- **Other regulations, limitations and prohibitive regulations**
The Dangerous Substances and Explosive Atmosphere Regulations (DSEAR)

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant R-phrases**

The 'R' phrase listed below are for reference only and do not form the R phrases for the labelling or classification of the product. Refer to section 3 for this information.

- 10 Flammable.
- 11 Highly flammable.
- 20/21 Harmful by inhalation and in contact with skin.
- 22 Harmful if swallowed.
- 36 Irritating to eyes.
- 37/38 Irritating to respiratory system and skin.
- 38 Irritating to skin.
- 41 Risk of serious damage to eyes.
- 48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.
- 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- 62 Possible risk of impaired fertility.
- 63 Possible risk of harm to the unborn child.
- 65 Harmful: may cause lung damage if swallowed.
- 66 Repeated exposure may cause skin dryness or cracking.
- 67 Vapours may cause drowsiness and dizziness.

· **Training hints**

Make users aware of the contents of this document and train according to use and risks within your operation.

- **Department issuing MSDS:** Product safety department.
- **Contact:** Sales Office in the first instance.