Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 10.07.2015 *Version number 6* *Revision: 10.07.2015*

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

· **1.1 Product identifier**

· **Trade name: Mould Cleaner**
· **Registration number**
All substances used in this product have been registered under the REACH regulations. Refer to our office if you require registration numbers for individual substances.
· **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
· **Application of the substance / the mixture** Cleaning solvent
· **Uses advised against**
Food contact, additive.
For Industrial use only, not for use by public, or untrained persons

· **1.3 Details of the supplier of the safety data sheet**
· **Supplier:**
Hammond Chemicals Limited
Canal Street
Brierley 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.
· **1.4 Emergency telephone number:** Contact us as above (Not 24 hours)

SECTION 2: Hazards identification

· **2.1 Classification of the substance or mixture**
· **Classification according to Regulation (EC) No 1272/2008**

GHS02 flame

Flam. Liq. 2 H225 Highly flammable liquid and vapour.

GHS08 health hazard

Repr. 2 H361d Suspected of damaging the unborn child.
STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.
Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

GHS07

Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2 H319 Causes serious eye irritation.
STOT SE 3 H336 May cause drowsiness or dizziness.

· **2.2 Label elements**
· **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the CLP regulation.

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· ***Hazard pictograms***

GHS02 GHS07 GHS08

· ***Signal word*** *Danger*

· ***Hazard-determining components of labelling:***
toluene
butanone
· ***Hazard statements***
H225 Highly flammable liquid and vapour.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H361d Suspected of damaging the unborn child.
H336 May cause drowsiness or dizziness.
H373 May cause damage to organs through prolonged or repeated exposure.
H304 May be fatal if swallowed and enters airways.
· ***Precautionary statements***

P210	*Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.*
P243	*Take precautionary measures against static discharge.*
P280	*Wear protective gloves/protective clothing/eye protection/face protection.*
P301+P310	*IF SWALLOWED: Immediately call a POISON CENTER/ doctor.*
P303+P361+P353	*IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.*
P304+P340	*IF INHALED: Remove person to fresh air and keep comfortable for breathing.*
P305+P351+P338	*IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.*
P403+P235	*Store in a well-ventilated place. Keep cool.*

· ***2.3 Other hazards***
· ***Results of PBT and vPvB assessment***
· ***PBT:*** *Not applicable.*
· ***vPvB:*** *Not applicable.*

SECTION 3: Composition/information on ingredients

· ***3.2 Chemical characterisation: Mixtures***
· ***Description:*** *Mixture of substances listed below with nonhazardous additions.*

· ***Dangerous components:***

CAS: 108-88-3 *EINECS: 203-625-9*	*toluene* *Flam. Liq. 2, H225* *Repr. 2, H361d; STOT RE 2, H373; Asp. Tox. 1, H304* *Skin Irrit. 2, H315; STOT SE 3, H336*	*30-60%*
CAS: 78-93-3 *EINECS: 201-159-0*	*butanone* *Flam. Liq. 2, H225* *Eye Irrit. 2, H319; STOT SE 3, H336*	*30-60%*

· ***SVHC*** *No substance within this mixture is listed as an SVHC at the date this document was created.*

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

SECTION 4: First aid measures

· **4.1 Description of first aid measures**
· **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. Dispose of 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 at least 15 minutes under clean running water. Remove contact lenses if possible. Seek immediate medical advice.
Continue to irrigate the eye with clean water.
Seek immediate medical advice.
· **After swallowing:**
Do NOT induce vomiting; rinse mouth with water, call for medical help immediately.
A person vomiting while laying on their back should be turned onto their side.
· **4.2 Most important symptoms and effects, both acute and delayed**
Headache
Dizziness
Nausea
Unconsciousness
· **Information for doctor:** Risk of lung aspiration due to low viscosity of product.
· **4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

SECTION 5: Firefighting measures

· **5.1 Extinguishing media**
· **Suitable extinguishing agents:**
CO2, powder or water spray. Fight larger fires with aqueous film forming foam (AFFF). Cool containers with water spray.
· **For safety reasons unsuitable extinguishing agents:** Water with full jet
· **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
· **5.3 Advice for firefighters**
· **Protective equipment:** 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.

SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
Keep people at a distance and stay on the windward side.

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Keep away from ignition sources.
Wear protective clothing.
Urgent consideration given to blanket spillage with AFFF Foam to seal liquid/oygen barrier to help prevent (re) ignition.

· **6.2 Environmental precautions:**
In case of seepage into the ground inform responsible authorities.
Do not allow to enter sewers/ surface or ground water.

· **6.3 Methods and material for containment and cleaning up:**
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 - may need to be UN approved.
Urgent consideration should be given to blanketing spillage with AFFF Foam Spray to seal from sources of ignition as a precautionary measure.

· **6.4 Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

· **7.1 Precautions 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 - no naked sparks/flames/fires. Ensure electrical equipment is protected to correct Zone rating (DSEAR Assessed)
Protect against electrostatic charges. Where required - ensure bonding and earthing of containers and process equipment.
Static generation and accumulation may be increased when using fine filters,strainers,mixing with powders and immiscible liquids, high energy/speed mixers. Take extra precautions. Allow static relaxation time for charges to dissipate before next steps. Do not splash fill.
Do not spray onto a naked flame, hot surfaces, electrical switchgear, live/battery connected electrics, or near to any potential sources of ignition.
Flammable gas-air mixtures may form in empty receptacles.
Wear shoes with conductive soles.

· **7.2 Conditions for safe storage, including any incompatibilities**
· **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 only in the original receptacle.
Unsuitable materials for packaging: Plastics, unless static protected.
Store in area marked with EX signs under Dangerous Substances and Explosive Atmosphere Regs.
Follow HSE guidance for storage of flammable substances.

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Flameproof/explosion proof electrical equipment must be used (ATEX Regulations)
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 oxidising 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.
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.
Composite plastic IBC's risk sudden and total loss of product in event of fire. Ensure bunded areas are adequate.
Do not store composite plastic IBC's with other packaged flammable goods.

· **7.3 Specific end use(s)** *No further relevant information available.*

SECTION 8: Exposure controls/personal protection

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

· **8.1 Control parameters**

· **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
78-93-3 butanone	
WEL	Short-term value: 899 mg/m³, 300 ppm Long-term value: 600 mg/m³, 200 ppm Sk

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

· **8.2 Exposure controls**
· **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.

· **Protection of hands:**

Protective gloves

Solvent resistant gloves. Use gloves approved to BS EN 374 : Protective Gloves against Chemicals.
Chemical Resistant Gloves, class 4 or higher for prolonged exposure.

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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***
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 trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· ***Eye protection:***

Tightly sealed goggles. EN166 Standard

· ***Body protection:*** *Protective work clothing*

· ***Risk management measures***
Carry out risk assessment under Dangerous Substances and Explosive Atmospheres Regulations (DSEAR), COSHH.

SECTION 9: Physical and chemical properties

· ***9.1 Information on basic physical and chemical properties***	
· ***General Information***	
· ***Appearance:***	
Form:	*Liquid*
Colour:	*Colourless (Aged product may darken depending upon storage conditions and time period)*
· ***Odour:***	*Characteristic*
· ***Change in condition***	
Melting point/Melting range:	*Undetermined.*
Boiling point/Boiling range:	*79 °C*
· ***Flash point:***	*-4 °C*
· ***Ignition temperature:***	*514 °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:	*1.2 Vol %*
Upper:	*11.5 Vol %*
· ***Vapour pressure at 20 °C:***	*105 hPa*
· ***Density at 20 °C:***	*0.830 - 0.845 g/cm³*
· ***Solubility in / Miscibility with water:***	*Not miscible or difficult to mix.*
· ***Solvent content:***	
Organic solvents:	*100.0 %*

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VOC (EC)	*100.00 %*
· ***9.2 Other information***	*No further relevant information available.*

SECTION 10: Stability and reactivity

· ***10.1 Reactivity***
· ***10.2 Chemical stability***
· ***Thermal decomposition / conditions to be avoided:***
No decomposition if used according to specifications and industry good practice.
· ***10.3 Possibility of hazardous reactions*** *No dangerous reactions known.*
· ***10.4 Conditions to avoid*** *Avoid splash discharge/filling due to static ignition risk.*
· ***10.5 Incompatible materials:*** *Acids, strong oxidising agents, strong alkalis.*
· ***10.6 Hazardous decomposition products:*** *Carbon monoxide if incomplete combustion.*

SECTION 11: Toxicological information

· ***11.1 Information on toxicological effects***
· ***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)*
78-93-3 butanone		
Oral	*LD50*	*3300 mg/kg (rat)*
Dermal	*LD50*	*5000 mg/kg (rabbit)*

· ***Primary irritant effect:***
· ***Skin corrosion/irritation*** *Irritant to skin and mucous membranes.*
· ***Serious eye damage/irritation*** *Irritating effect.*
· ***Respiratory or skin sensitisation*** *No sensitising 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:
Irritant
· ***CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)***
Repr. 2

SECTION 12: Ecological information

· ***12.1 Toxicity***
· ***Aquatic toxicity:*** *No further relevant information available.*
· ***12.2 Persistence and degradability*** *No further relevant information available.*
· ***12.3 Bioaccumulative potential*** *No further relevant information available.*
· ***12.4 Mobility in soil*** *No further relevant information available.*
· ***Additional ecological information:***
· ***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.

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Danger to drinking water if even small quantities leak into the ground.
· ***12.5 Results of PBT and vPvB assessment***
· ***PBT:*** *Not applicable.*
· ***vPvB:*** *Not applicable.*
· ***12.6 Other adverse effects*** *No further relevant information available.*

SECTION 13: Disposal considerations

· ***13.1 Waste treatment methods***
· ***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:***
Waste Solvent 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 packaging (205litre and IBC's only).
Containers to be scrapped as waste must be cleaned so that no hazardous substances remain, otherwise uncleaned containers containing residue for srap will need to be consigned as hazardous waste as per WM2 version 3 2014.

SECTION 14: Transport information

· ***14.1 UN-Number***	
· ***ADR, IMDG, IATA***	*1993*
· ***14.2 UN proper shipping name***	
· ***ADR***	*1993 FLAMMABLE LIQUID, N.O.S. (ETHYL METHYL KETONE (METHYL ETHYL KETONE), TOLUENE), special provision 640D*
· ***IMDG, IATA***	*FLAMMABLE LIQUID, N.O.S. (ETHYL METHYL KETONE (METHYL ETHYL KETONE), TOLUENE)*
· ***14.3 Transport hazard class(es)***	
· ***ADR, IMDG, IATA***	
· ***Class***	*3 Flammable liquids.*
· ***Label***	*3*
· ***14.4 Packing group***	
· ***ADR, IMDG, IATA***	*II*
· ***14.5 Environmental hazards:***	
· ***Marine pollutant:***	*No*
· ***14.6 Special precautions for user***	*Warning: Flammable liquids.*
· ***Danger code (Kemler):***	*33*

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· ***EMS Number:***	*F-E,S-E*
· ***14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code***	*Not applicable.*
· ***Transport/Additional information:***	
· ***ADR***	
· ***Limited quantities (LQ)***	*LQ4*
· ***Transport category***	*2*
· ***Tunnel restriction code***	*D/E*
· ***UN "Model Regulation":***	*UN1993, FLAMMABLE LIQUID, N.O.S. (ETHYL METHYL KETONE (METHYL ETHYL KETONE), TOLUENE), special provision 640D, 3, II*

SECTION 15: Regulatory information

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

· ***National regulations:***

· ***Other regulations, limitations and prohibitive regulations***
The Dangerous Substances and Explosive Atmoshere Regulations (DSEAR)
· ***15.2 Chemical safety assessment:*** *A Chemical Safety Assessment has not been carried out.*

SECTION 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 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.
H225 Highly flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H361d Suspected of damaging the unborn child.
H373 May cause damage to organs through prolonged or repeated exposure.
· ***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.*
· ***Abbreviations and acronyms:***
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent

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Flam. Liq. 2: Flammable liquids, Hazard Category 2
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2
Repr. 2: Reproductive toxicity, Hazard Category 2
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3
STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2
Asp. Tox. 1: Aspiration hazard, Hazard Category 1