

# Standard Thinners

## Safety Data Sheet

Date of issue: 08/07/2015

Revision Date: 11/05/2022

Version 4



# PALATINE PAINTS



## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1 Product Identifier

Product Name Standard Thinners  
Synonyms Trade names Cellulose Thinners, Cellulose Standard Thinners  
Application Industrial Blend of Solvents  
REACH Registration Number(s) 01-211978062-37-0000, 01-2119488216-32, 01-2119471310-51,  
01-2119457558-25, 01-2119433307-44, 01-2119475103-46, 01-2119480404-41-XXXX  
CAS-No. 67-64-1, 1330-20-7, 108-88-3, 67-63-0, 67-56-1, 141-78-6, 75-09-2  
EC No. 200-660-2, 215-535-7, 203-625-9, 200-661-7, 200-659-6, 205-500-4, 200-838-9  
Formula Not determined

### 1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Identified Uses Industrial uses, professional uses  
Cleaner  
Solvents  
Manufacture of substance  
Distribution of substance

Further information See exposure scenarios in section 8

### 1.3 Details of the Supplier of the Safety Data Sheet

Supplier Palatine Paints & Chemicals Limited  
55 Smallbrook Lane  
Leigh,  
Lancashire  
WN7 5PZ  
  
Tel +44 (0) 1373 451170  
Fax +44 (0) 1373 467800

Contact Person: [sales@palatinepaints.co.uk](mailto:sales@palatinepaints.co.uk)

### 1.4 Emergency Number

Country	Organisation/Company	Address	Emergency number
	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH Birmingham	0844 892 0111 (UK only)

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1 Classification of the Substance or Mixture

Classification according to Regulation (EC) No. 1272/2008

Product Definition Blended substance  
Application Industrial Blend of Solvents  
REACH Registration Number(s) 01-211978062-37-0000, 01-2119488216-32, 01-2119471310-51,  
01-2119457558-25, 01-2119433307-44, 01-2119475103-46, 01-2119480404-41-XXXX  
CAS-No. 67-64-1, 1330-20-7, 108-88-3, 67-63-0, 67-56-1, 141-78-6, 75-09-2  
EC No. 200-660-2, 215-535-7, 203-625-9, 200-661-7, 200-659-6, 205-500-4, 200-838-9

Flam. Liq. (Category 2) H225  
Aspiration Toxicity (Category 1) H304  
Acute Dermal Tox (Category 4) H312  
Acute Inhalation Tox – vapours (Category 4) H332  
Skin corrosion/irritation (Category 2) H315

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Eye irritation (Category 2)	H319
STOT SE (Category 2)	H373
Chronic aquatic toxicity (Category 3)	H412
Reproductive toxicity (Category 2)	H361
Specific target organ toxicity – single exposure (Category 3) Narcosis	H336
Specific target organ toxicity – repeated exposure (Category 2)	H373

For the full text of the H statements mentioned in this section, see Section 16.

Adverse Physicochemical, human health and environmental effects

Highly flammable liquid and vapour

May cause drowsiness or dizziness

## 2.2 Label Elements

Labelling according to Regulation (EC) No. 1272/2008



Pictogram  
Signal word

Danger

Hazardous Ingredients

Toluene, Acetone, Xylene, Methanol, Ethyl Acetate, Isopropanol, Dichloromethane

Hazard statements(s)

H225 Highly Flammable liquid and vapour  
H304 May be fatal if swallowed and enters airways  
H312+H332 Harmful in contact with skin or if inhaled  
H315 Causes skin irritation  
H319 Causes serious eye irritation  
H335 May cause respiratory irritation  
H361 Suspected of damaging fertility or the unborn child  
H373 May cause damage to organs through prolonged or repeated exposure  
H412 Harmful to aquatic life with long lasting effects  
H336 May cause drowsiness or dizziness  
H373 May cause damage to organs through prolonged or repeated exposure

Precautionary statement(s)

P210 Keep away from heat hot surface sparks, open flames and other ignition sources.  
No smoking  
P240 Ground/bond container and receiving equipment.  
P243 Take precautionary measures against static discharge.  
P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes.  
Remove contact lenses, if present and easy to do. Continue rinsing.  
P313 Get medical advice/attention.  
P233 Keep container tightly closed.  
P241 Use explosion-proof electrical/ventilating/lighting/equipment.  
P242 Use only non-sparking tools.  
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P264 Wash thoroughly after handling.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P304+340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting  
P303+361+353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing  
Rinse skin with water/ shower  
P312 Call a POISON CENTER or doctor/physician if you feel unwell.  
P337 If eye irritation persists:  
P370+378 In case of fire: Use for extinction.  
P403+233 Store in a well-ventilated place. Keep container tightly closed.  
P403+235 Store in a well-ventilated place. Keep cool.

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P405 Store locked up.  
P501 Dispose of contents/container to a licensed waste contractor.

Supplemental Hazard statements

EUH066 Repeated exposure may cause skin dryness or cracking

### 2.3 Others Hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels 0.1% or higher

## SECTION 3: Composition/ Information on Ingredients

### 3.1 Substances

REACH Registration Number(s) 01-211978062-37-0000, 01-2119488216-32, 01-2119471310-51,  
01-2119457558-25, 01-2119433307-44, 01-2119475103-46, 01-2119480404-41-XXXX  
CAS-No. 67-64-1, 1330-20-7, 108-88-3, 67-63-0, 67-56-1, 141-78-6, 75-09-2  
EC No. 200-660-2, 215-535-7, 203-625-9, 200-661-7, 200-659-6, 205-500-4, 200-838-9  
Formula Not determined

Xylenes

Substance name / Component	Classification	Concentration
CAS-No. 1330-20-7 EC No. 215-535-7 REACH 01-2119488216-32	Flam. Liq. 3 (H226) Asp. Tox. 1 (H304) Acute Tox. 4 (H312) Acute Tox. 4 (H332) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) STOT SE 3 (H335) STOT RE 23 (H373) Aquatic Chronic 3 (H412)	1 - <3%

Propan-2-one, propanone, Acetone

Substance name / Component	Classification	Concentration
CAS-No. 67-64-1 EC No. 200-660-2 EU Index No. 606-001-00-8 REACH No 01-211978062-37-0000	Flam. Liq. 2 H225 Eye Irrit. 2 H319 STOT SE3: H336	5 - < 10%

Toluene

Substance name / Component	Classification	Concentration
CAS No 108-88-3 EC no 203-625-9 EC index no 601-021-00-3 REACH-no 01-2119471310-51	Flam. Liq. 2, H225 Repr. 2, H361d Asp. Tox. 1, H304 STOT RE 2, H373 Skin Irrit. 2, H315 STOT SE 3, H336	10 - <20.0%

Isopropanol

Substance name / Component	Classification	Concentration
CAS No)67-63-0 EC no)200-661-7 EC index no 603-117-00-0 REACH-no 01-2119457558-25	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	5 - <10.0%

Methanol

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Substance name / Component	Classification	Concentration
CAS No 67-56-1 EC no 200-659-6 EC index no 603-001-00- X REACH-no 01-2119433307-44	Flam. Liq. 2, H225 Acute Tox. 3 (Inhalation), H331 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Oral), H301 STOT SE 1, H370	1 - <10. %

### Ethyl Acetate

Substance name / Component	Classification	Concentration
CAS No 141-78-6 EC no 205-500-4 EC index no 607-022-00-5 REACH-no 01-2119475103-46	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	1 - <3. %

### Dichloromethane

Substance name / Component	Classification	Concentration
CAS No 75-09-2 EC no 200-838-9 EC index no 602-004-00-3 REACH 01-2119480404-41-XXXX	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Carc. 2, H351	1 - <10 %

For the full text of the H statements mentioned in this section, see Section 16

## SECTION 4: First Aid Measures

### 4.1 Description of First Aid Measures

General Advice	Remove affected person from source of contamination. If symptoms persist call a physician.
If Inhaled	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention. If not breathing, give artificial respiration Risk of serious damage to the lungs (by aspiration)
If Ingested	Rinse mouth thoroughly with water. Give plenty of water to drink. Keep affected person under observation. Do NOT induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention immediately. Show this Safety Data Sheet to the medical personnel.
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes If skin irritation persists, call a physician
In in eyes	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes Get medical attention
Self-protection of the first aider	Ensure the medical personal are aware of the material(s) involved Take precaution to protect themselves and prevent spread of contamination

### 4.2 Most Important Symptoms and Effects, both Acute and Delayed

General Information	The severity of the symptoms described will vary dependant of the concentration and the length of exposure
If inhaled	Acute: Vapours may cause headache, fatigue, dizziness and nausea Irritation of nose, throat and airway Delayed: Central nervous system depression
If ingested	Acute: Nausea vomiting, headache, drowsiness, irritation of mouth, throat and oesophagus Delayed: Pulmonary edema, coma, liver and kidney damage

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Skin contact

Acute: Redness and skin irritation  
Delayed: Skin dryness and dermatitis

If in eyes

Acute: irritating and may cause redness and pain  
Delayed: May cause conjunctivitis

### 4.3 Indication of any immediate medical attention and special treatment needed

Hand / Eye wash facilities must be in place close to operators work area to provide immediate first aid prior to medical attention  
Severe cases of eye contact and ingestion should receive medical attention immediately

Notes to Physician

Treat symptomatically  
Symptoms may be delayed

## SECTION 5: Firefighting Measures

### 5.1 Extinguishing Media

Suitable extinguishing media

Water spray  
Alcohol resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Water mist may be used to cool closed containers  
DO NOT USE a solid water stream as it may scatter and spread fire

### 5.2 Special hazards arising from the substance or mixture

Specific Hazards

Highly flammable liquid and vapour.  
Containers may explode when heated  
Vapours may form explosive mixtures with air  
Vapours may travel to source of ignition and flash back

Hazardous decomposition products

Carbon oxides (CO, CO<sub>2</sub>)..

### 5.3 Advice for firefighters

Special Firefighting Procedures

Evacuate area.  
Containers close to the fire should be cooled with water if safe to do so  
Be aware that any flammable substance containers are liable to explode when heated  
Prevent run-off from entering drains and watercourses  
Be aware of dangers from other hazardous substances in the immediate area

Protective measures in Fire

Do not attempt to take action without suitable protective equipment.  
Self-contained breathing apparatus.

### 5.4 Further Information

Do not allow run-off from fire-fighting to enter drains or water courses. Dispose of waste in accordance with environmental legislation.

## SECTION 6: Accidental Release Measures

### 6.1 Personal Precautions, Protective Equipment and Emergency Procedures

Advice for non-emergency personnel

Evacuate unnecessary personnel.  
Use protective clothing and equipment as described in section 8 of this datasheet  
Isolate all sources of ignition  
Provide adequate ventilation  
Avoid ingestion, inhalation of vapours and contact with skin and eyes  
Restrict access to the area until the spillage is treated  
If large amounts of vapours are produced that will be hazardous to others evacuate the area  
Use suitable respiratory equipment if spillages occur in enclosed spaces and vapours are produced  
Have emergency procedures in place for treating spillages evacuating the area and informing the emergency services if necessary

Advice for emergency personnel

Ensure procedures and training for emergency decontamination and disposal are in place.  
Concerning personal protective equipment to use, see section 8.

### 6.2 Environmental Precautions

Do not allow spilled material to enter drains sewers or water courses

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Cover all drains and sewers  
Avoid spreading material  
Contain spillages with sand, earth or suitable absorbent material  
Prevent further spillage if safe to do so  
In the event of contamination of watercourses or sewers, advise the Environment Agency fire brigade and police

### 6.3 Methods and Materials for containment and cleaning up

Isolate all ignition sources  
Avoid heat, flames, sparks and static discharge  
NO SMOKING  
Small spillages Absorb with inert, non-combustible material  
Large spillages Dam and absorb spillages with sand, earth or other inert non-combustible material  
Fit drain covers where they are available  
Provide adequate ventilation  
Any extraction systems used to ventilate the area must be flameproof  
Collect spillage in containers, seal securely and deliver for disposal according to local regulations  
Containers with collected spillage must be properly labelled with correct contents and hazard symbol  
Ensure there are no ignition or heat sources in the waste storage area  
Wash spillage site with water and detergent; be aware of the potential surfaces to become slippery  
After spillages in enclosed areas test atmosphere before using any potential ignition sources  
Ventilate area and allow to dry before allowing access

### 6.4 Reference to Other Sections

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

## SECTION 7: Handling and Storage

### 7.1 Precautions for Safe Handling

Advice on safe handling	Provide adequate ventilation. Use personal protective equipment as required. Concerning personal protective equipment to use, see section 8. Do not breathe vapours. Avoid contact with skin, eyes and clothing. Take any precaution to avoid mixing with Incompatible materials, Refer to Section 10 on Incompatible Materials. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.. Use explosion-proof equipment. Use only non-sparking tools.
Hygiene Measures	Keep good industrial hygiene. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke when using this product. Keep away from food, drink and animal feeding stuffs. Remove contaminated clothes. Separate working clothes from town clothes. Launder separately. Wash contaminated clothing before reuse..
Information on fire and explosion protection	Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air. When operators, whether spraying or not, have to work inside the spray booth, ventilation is unlikely to be sufficient to control particulates and solvent vapour in all cases. In such circumstances they should wear a compressed air-fed respirator during the spraying process and until such time as the particulates and solvent vapour concentration has fallen below the exposure limits.

### 7.2 Conditions for Safe Storage Including any Incompatibilities

Storage conditions	Storage of flammable liquids. Store in a dry, cool and well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not store near or with any of the incompatible materials listed in section 10. Keep container tightly closed in a dry and well-ventilated place
Packaging material	Keep only in the original container

### 7.3 Specific end user(s)

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Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

### SECTION 8: Exposure Controls / Personal Protection

#### 8.1 Control Parameters

Ingredients with workplace control parameters

Exposure limits

List source(s):

EU – Commission Directive (EU) 2019-1831 of 24 October 2019 establishing a fifth list of indicative occupational exposure limit values pursuant to Council directive 98/24/EC and amending Commission Directive 2000/39/EC

UK – EH40/2005 Work Exposure Limits, Third edition. Published 2018

IRE – 2018 Code of Practice for the Chemical Agents Regulations, Schedule 1. Published by the Health and Safety Authority

Component	The United Kingdom	European Union	Ireland
Xylenes	STEL: 100 ppm 15 min STEL: 441 mg/m <sup>3</sup> 15 min TWA: 50 ppm 5 hr TWA: 220 mg/m <sup>3</sup> 5 hr Skin	TWA: 50 ppm (8hr) TWA: 221 mg/m <sup>3</sup> (8h) STEL: 100 ppm (15 min) STEL: 442 mg/m <sup>3</sup> (15 min) Skin	TWA: 50 ppm 8 hr TWA: 221 mg/m <sup>3</sup> 8hr STEL: 100 ppm 15 min STEL: 442 mg/m <sup>3</sup> 15 min Skin

Biological limit values

List source(s):

UK – Biological Monitoring Guidance Values provided by the UK's health and Safety Executive (HSE) Control of Substances Hazardous to Health Regulations (COSHH) 2002 (as amended) and EH40/2005

Component	United Kingdom	European Union
Xylenes	Methyl hippuric acid: 650 mmol/mol Creatinine urine post shift	

Monitoring methods

BS EN 14042:2003 Title identifier: Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents

MDHS70 General methods for sampling airborne gases and vapours

MDHS 88 Volatile organic compounds in air. Laboratory method using diffusive samplers, solvent desorption and gas chromatography

NDHS 96 Volatile organic compounds in air – Laboratory method using pumped solid sorbent tubes solvent desorption and gas chromatography  
Derived No Effect Level (DNEL)

Industry	Inhalation	Short Term	289 (systemic and local)	mg/m <sup>3</sup>
Industry	Dermal	Long Term	289 (systemic)	mg/kg/day
Industry	Inhalation	Long Term	77	mg/m <sup>3</sup>
Consumer	Inhalation	Short Term	174 (systemic and local)	mg/m <sup>3</sup>
Consumer	Dermal	Long Term	108 (systemic)	mg/kg/day
Consumer	Inhalation	Long Term	14.8 (systemic)	mg/m <sup>3</sup>
Consumer	Oral	Long Term	1.6 (systemic)	mg/kg/day

Predicted No Effect Level (PNEC)

Freshwater	0.327	mg/l
Marine water	0.327	mg/l
Microorganisms in sewage treatment	6.58	mg/l
Sediment (freshwater)	12.46	mg/kg dw
Sediment (Marine water)	12.46	mg/kg dw
Soil	2.31	mg/kg dw

#### Propan-2-one, propanone, Acetone

EU	Local name	Acetone
EU	IOELV TWA (mg/m <sup>3</sup> )	1210 mg/m <sup>3</sup>
EU	IOELV TWA (ppm)	500 ppm
EU	Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC
Germany	TRGS 910 Acceptable concentration notes	
United Kingdom	Local name	Acetone
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	1210 mg/m <sup>3</sup>
United Kingdom	WEL TWA ppm	500 ppm
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	3620 (mg/m <sup>3</sup> )
United Kingdom	WEL STEL (ppm)	1500 ppm
United Kingdom	Regulatory reference	EH40/2005 (third edition, 2018) HSE

Derived No Effect Level (DNEL) Derived Minimal Effect Level (DMEL)

DNEL / DMEL – workers	Acute – local effects, inhalation Long-term – systemic effects, dermal Long-term – systemic effects, inhalation	2420 mg/m <sup>3</sup> 186 mg/kg bodyweight/day 1210 mg/m <sup>3</sup>
DNEL / DMEL – general population	Long-term – systemic effects, oral	62 mg/kg bodyweight/day



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	Long-term – systemic effects, inhalation Long-term – systemic effects, dermal	200 mg/m <sup>3</sup> 62 mg/kg bodyweight/day
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### PNEC (Water)

PNEC aqua (freshwater)	10.6 mg/l
PNEC aqua (marine water)	1.06 mg/l
PNEC aqua (intermittent, freshwater)	21 mg/l

### PNEC (Sediment)

PNEC sediment (freshwater)	30.4 mg/kg dwt
PNEC sediment (marine water)	3.04 mg/kg dwt

### PNEC (Soil)

PNEC (soil)	29.5 mg/kg dwt
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### PNEC (STP)

PNEC sewage treatment plant	100 mg/l
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### Toluene

Component	The United Kingdom	European Union	Ireland
Toluene	STEL: 100 ppm 15 min STEL: 384 mg/m <sup>3</sup> 15 min TWA: 50 ppm 8 hr TWA: 191 mg/m <sup>3</sup> 8 hr Skin	TWA: 50 ppm 8 hr TWA: 192 mg/m <sup>3</sup> 8 hr STEL: 100 ppm 15 min STEL: 384 mg/m <sup>3</sup> 15 min Skin	TWA: 192 mg/m <sup>3</sup> 8 hr TWA: 50 ppm 8 hr STEL: 384 mg/m <sup>3</sup> 15 min STEL: 100 ppm 15 min Skin

### Monitoring methods

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MDHS70 General methods for sampling airborne gases and vapours

MDHS 88 Volatile organic compounds in air. Laboratory method using diffusive samplers, solvent desorption and gas chromatography

MDHS 96 Volatile organic compounds in air - Laboratory method using pumped solid sorbent tubes, solvent desorption and gas chromatography

### Derived No Effect Level (DNEL)

Route of exposure	Acute effects (local)	Acute effects (systemic)	Chronic effects (local)	Chronic effects (systemic)
Oral				8.13 mg/kg bw/day
Dermal				384 mg/kg bw/day
Inhalation	384 mg/m <sup>3</sup>	384 mg/m <sup>3</sup>	192 mg/m <sup>3</sup>	192 mg/m <sup>3</sup>

### Predicted No Effect Concentration (PNEC)

According to our experience and to the information provided to us, the product does not have any harmful effects if it is used and handled as specified. See values below.

Fresh water	0.68 mg/l
Fresh water sediment	16.39 mg/kg
Marine water	0.68 mg/l
Marine water sediment	16.39 mg/kg
Water Intermittent	0.68 mg/l
Microorganisms in sewage treatment	13.61 mg/l
Soil (Agriculture)	2.89 mg/kg

Component	The United Kingdom	European Union	Ireland
Methanol	WEL – TWA 200ppm WEL - TWA 266 mg/m <sup>3</sup> WEL – STEL 250ppm WEL – STEL 333 mg/m <sup>3</sup> Skin	TWA: 200 ppm 8 hr TWA: 260 mg/m <sup>3</sup> 8 hr  Skin	TWA: 260 mg/m <sup>3</sup> 8 hr TWA: 200 ppm 8 hr STEL: 780 mg/m <sup>3</sup> 15 min STEL: 600 ppm 15 min Skin
Component	The United Kingdom	European Union	Ireland
Methanol	WEL – TWA 200ppm WEL - TWA 266 mg/m <sup>3</sup> WEL – STEL 250ppm WEL – STEL 333 mg/m <sup>3</sup> Skin	TWA: 200 ppm 8 hr TWA: 260 mg/m <sup>3</sup> 8 hr  Skin	TWA: 260 mg/m <sup>3</sup> 8 hr TWA: 200 ppm 8 hr STEL: 780 mg/m <sup>3</sup> 15 min STEL: 600 ppm 15 min Skin

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### Derived No Effect Level (DNEL)



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Route of exposure	Acute effects (local)	Acute effects (systemic)	Chronic effects (local)	Chronic effects (systemic)
Oral		20 mg/kg bw/day		20 mg/kg bw/day
Dermal		130 mg/m <sup>3</sup>	130 mg/m <sup>3</sup>	130 mg/m <sup>3</sup>
Inhalation	130 mg/m <sup>3</sup>			

### Predicted No Effect Concentration (PNEC)

According to our experience and to the information provided to us, the product does not have any harmful effects if it is used and handled as specified. See values below.

Fresh water	154 mg/l
Fresh water sediment	570.4 mg/kg
Marine water	15.4 mg/l
Microorganisms in sewage treatment	100 mg/l
Soil (Agriculture)	23.5 mg/kg

Component	The United Kingdom	European Union	Ireland
Isopropanol Alcohol	STEL: 500 ppm 15 min STEL: 1250 mg/m <sup>3</sup> 15 min TWA: 400 ppm 8 hr TWA: 999 mg/m <sup>3</sup> 8 hr Skin		TWA: 200 ppm 8 hr STEL: 1400 ppm 15 min  Skin

### Monitoring methods

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### Derived No Effect Level (DNEL)

Route of exposure	Acute effects (local)	Acute effects (systemic)	Chronic effects (local)	Chronic effects (systemic)
Oral				888 mg/kg
Dermal				500 mg/m <sup>3</sup>
Inhalation				

### Predicted No Effect Concentration (PNEC)

According to our experience and to the information provided to us, the product does not have any harmful effects if it is used and handled as specified. See values below.

Fresh water	140.9 mg/l
Fresh water sediment	552 mg/kg
Marine water	140.9 mg/l
Water Intermittent	140.9 mg/l
Food chain	160 mg/kg
Microorganisms in sewage treatment	2251 mg/l
Soil (Agriculture)	28 mg/kg

Component	CAS-No	Value	Control Parameters	Basis
Dichloromethane	75-09-2	TWA	100ppm 353 mg/m <sup>3</sup>	WK. EH40 WEL – Workplace Exposure Limits

Remarks: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity

		TWA	100 ppm 353 mg/m <sup>3</sup>	Europe. Commission Directive 2017 / 164 / EU establishing a fourth list of indicative occupational exposure limit
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Remarks: Identifies the possibility of significant uptake through the skin

		STEL	200 ppm 706 mg/m <sup>3</sup>	Europe. Commission Directive 2017 / 164 / EU establishing a fourth list of indicative occupational exposure limit
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Remarks: Identifies the possibility of significant uptake through the skin

		STEL	200 ppm 706 mg/m <sup>3</sup>	UK. EH40 WEL – Workplace Exposure Limits
--	--	------	----------------------------------	--

Remarks: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity

### Biological occupational exposure limits

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Component	CAS No.	Parameters	Value	Biological Specimen	Basis
Dichloromethane	75-09-2	Carbon Monoxide	30 parts per million	End-tidal breath	UK. Biological monitoring guidance values

Remarks: After shift

### Derived No Effect Level (DNEL)

Application Area	Routes of Exposure	Health Effect	Value
Worker DNEL Acute	Inhalation	Systemic effects	706 mg/m <sup>3</sup>
Worker DNEL longterm	Inhalation	Systemic effects	353 mg/m <sup>3</sup>
Worker DNEL longterm	Dermal	Systemic effects	
Consumer DNEL longterm	Oral	Systemic effects	
Consumer DNEL longterm	Dermal	Systemic effects	
Consumer DNEL longterm	Inhalation	Systemic effects	88.3 mg/m <sup>3</sup>
Consumer DNEL acute	Inhalation	Systemic effects	353 mg/m <sup>3</sup>

### Predicted No Effect Concentration (PNEC)

Compartment	Value
Fresh water	0.54 mg/l
Fresh water sediment	4.47 mg/kg
Sea Water	0.194 mg/l
Sea sediment	1.61 mg/kg
Aquatic intermittent release	0.27 mg/l
Sewage treatment plant	26 mg/l
Soil	0.583 mg/kg

## 8.2 Exposure Controls

### Engineering measures

Provide adequate ventilation including appropriate local extraction to ensure that the defined workplace exposure limit (WEL) is not exceeded  
When mists or sprays are produced work under fume extraction  
Ventilation systems and extraction systems should be flame-proof

### Personal Protective Equipment

The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

### Eye / Face protection

Use suitable eye protection. (EN166): tightly fitting safety goggles.  
Have facilities in place to wash eyes in case of contact

### Skin protection

Use protective gloves  
Viton rubber (fluor rubber)  
Polyvinyl alcohol (PVA)  
For gloves involving total immersion 1.mm thickness (if available) are recommended at least 0.5mm and breakthrough time of >480 minutes  
For splash resistance use minimum 0.5mm thickness and breakthrough time >240 minutes  
Be aware that the liquid may penetrate the gloves  
Frequent change is advisable  
The most suitable glove must be chosen in consultation with the gloves supplier who can inform about the breakthrough time of the glove material  
Gloves showing signs of degradation should be changed to avoid skin contamination  
When removing used gloves apply proper technique by avoiding skin contact with outer surface  
Gloves should carry the CE mark and conform to BS EN374 chemicals and micro-organisms  
When packages of the product are being handled during storage or transport it is advisable to wear protective gloves to prevent damage to the skin

### Body Protection

Wear suitable protective clothing as protection against splashing or contamination  
Provide eyewash station and safety shower  
Wear plastic apron and full length gloves if handling large amounts  
If there is a risk of splashing then wear a face shield  
Wear suitable protective clothing during transport, handling and storage operations connected with the product  
Wear protective footwear during handling of the product  
When treating spillages it is recommended to wear protective boots, consult with the supplier as to the compatibility  
Wear anti-static footwear  
Protective clothing should conform to the general requirements of EN340:2003.  
Also consider EN13034:2005; EN14605:2005; EN943:2002 dependent upon the situation resulting in exposure

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Safety footwear should conform to standard EN344 – 347

If handling large amounts it is recommended to have a safety shower

### Respiratory Protection

Wear suitable respiratory protection if vapours are generated

When the concentration of atmospheric vapours is sufficient to cause skin irritation it is advisable to wear full face respiratory protection

Chemical respirator with organic vapour cartridge; Type A

Consult with the supplier as to the compatibility of the equipment with the chemical of concern

Respiratory protection should conform to the following standards:

BS EN136: Full face masks

BS EN140: Half-face masks

CAUTION: Air purifying respirators do not protect the user in oxygen deficient atmospheres, use are supplied system

Powered air respirators should meet requirements of EN146 and EN12941

Airline fed respirators should meet the requirements of EN270 and EN1835

When vapours are generated during spill clean-up operations and exposure of operators is likely then respiratory equipment should be worn

Respiratory protection should be maintained in a proper condition and inspected at the frequency specified by current legislation

### Hygiene measures

Wash hands at the end of each work shift and before eating, smoking or using bathroom facilities

Remove clothing when contamination will result in exposure to the substance, segregate and wash before re-use

Do not eat, drink or smoke in the work area

### Control of environmental exposure

Prevent product from entering drains

Do not allow material to contaminate ground water system

Local authorities should be advised if significant spillages cannot be contained

Comply with applicable Community environmental protection legislation

## SECTION 9: Physical and Chemical Properties

### 9.1 Information on Basic Physical and Chemical Properties

Appearance	Clear colourless liquid
Molecular mass	No data available
Odour Characteristic Ester	Pungent petroleum-like odour
Odour threshold	No data available
pH	5 - 9
Melting point / Freezing point	No Data Available
Initial boiling point and boiling range	No Data Available
Flash point	No Data Available
Evaporation rate (butylacetate=1)	No data available
Flammability (solid, gas)	Highly flammable liquid and vapour
Upper / lower flammability or explosive limits	Upper explosion limit: Not determined Lower explosion limit: Not determined
Vapour Pressure	240 hPa @ 20°C
Vapour density	No data available
Relative density	0.82 – 0.88 kg/m <sup>3</sup> @ 20°C
Water solubility	No data available
Partition coefficient: n-octanol/water	No data available
Autoignition temperature	No data available
Decomposition temperature	No data available
Viscosity	Viscosity, kinematic: No data available Viscosity dynamic: No data available
Explosive properties	No data available
Oxidising properties	Non oxidising material according to EC criteria
Explosive limits	Can form explosive vapour / air mixtures

### 9.2 Other safety information

VOC content	100 %
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## SECTION 10: Stability and Reactivity

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### 10.1 Reactivity

Highly flammable liquid and vapour.  
Can react with strong acids and oxidising agents  
Reference to other sections: 10.4 & 10.5.

### 10.2 Chemical Stability

Stable when stored in sealed container at normal temperatures and in a suitable location  
Evaporation will occur if the containers are not sealed correctly  
Agitation of the substance in storage containers may produce a build-up of electrostatic charge  
Forms explosive mixtures with air

### 10.3 Possibility of Hazardous Reactions

Hazardous reactions as specified in section 10.1  
There will be immense pressure build up under explosive conditions causing sealed containers to rupture  
Do not mix materials known to cause hazardous reactions  
May react violently or exothermically  
Hazardous polymerisation

### 10.4 Conditions to Avoid

Avoid sources of heat and ignition  
Avoid direct sunlight and moisture  
Avoid storage with incompatible materials  
Avoid storage in freezing conditions  
Avoid storage near to unprotected drainage systems  
It is advisable to store the product within some form of containment to prevent spillage reaching drainage systems  
Avoid situations that would produce vibration or agitation of the substance in storage containers as there is potential to build up static charge particularly in metal or compatible plastic containers  
Do not allow the storage container to be left exposed to the atmosphere  
Avoid storage in unstable manner or in a situation that would result in exposure of the product  
Safe handling: See section 7

### 10.5 Incompatible Materials

Some plastics, rubber and coatings  
Strong oxidising substances

### 10.6 Hazardous Decomposition Products

Thermal decomposition generates: Carbon oxides (CO/CO<sub>2</sub>), fume.  
May release flammable gases

## SECTION 11: Toxicological Information

### 11.1 Information on toxicological effects

Acute Toxicity (oral)	Not classified (Based on available data, the classification criteria are not met)
Acute Toxicity (dermal)	Not classified (Based on available data, the classification criteria are not met)
Acute Toxicity (inhalation)	Not classified (Based on available data, the classification criteria are not met)

#### Xylenes

LD50/oral/mouse	5251 mg/kg
LD50/dermal/rabbit	4200 mg/kg
LC50 inhalation rat (Vapours - mg/l/4h)	29091 mg/l/4h

#### Skin corrosion / irritation

Dose	4 (Semi-occlusive contact) hr Rabbit
Primary dermal irritation (PDI)	2.21 (average erythema and oedema for both intact and abraded skin)
Other registered information classes xylenes as either moderately irritating or non-corrosive	
Moderately irritating	
Human skin model test	
No information available	

#### Serious eye damage / eye irritation

Moderately irritating	0.1 ml sample; Draize system – 24, 48 and 72 hour observation periods Average eye irritation scores; 24 hours - 8.33; 48 hours – 6.66; 72 hours – 4.67
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Respiratory or skin sensitisation

Respiratory sensitisation – no information available

Skin sensitisation

Mouse

Xylene is not classed as a skin sensitiser, but this score indicates a very slight positive result (>3.0) at 100% concentration.

Can cause dermatitis on prolonged or repeated exposure

OECD Guideline 429 (Skin Sensitisation Local Lymph Node Assay). Simulation Index = 3.1

Germ cell mutagenicity

Genotoxicity

Chromosome aberration

Tests on hamster ovary

Genotoxicity

Chromosome aberration

Tests on mice and rats

In vitro

All registered tests gave negative results

Negative. EU Method B. 19

In vitro

All registered tests gave negative results

Negative. OECD 478 (Genetic toxicology)

Carcinogenicity

Not classified (Based on available data, the classification criteria are not met)

Reproductive toxicity

Reproductive Toxicity

One-generation study

NOAEC = 500ppm for systemic and reproductive toxicity

Exposure

Fertility

Dose Level 0, 60, 250, 500 ppm Inhalation. Rat P

Exposure

6 hours / day, 5 days / week, for 131 days

Reproductive Toxicity

Development toxicity

Exposure

Foetal toxicity was observed at 1000 and 2000ppm

No teratogenic effects up to 2000ppm

Development

NOAEC 500 ppm Inhalation. Rat

6 hours / day for 21 days. OECD Guideline 414

Specific target organ toxicity – repeated exposure

STOT

Dose Level

OECD Guideline

Target organs

Increased liver weight (males) – LOAEL = 150 mg/kg

Increase liver weight (females) – NOAEL = 150 mg/kg

Reduction in body weight gain (males) – NOAEL = 750 mg/kg

Repeated exposure

0, 150 750, 1500 mg/kg Oral. Rat

408. 90 day exposure

Liver, kidneys

General information

Exposure via inhalation: 1ppm = odour threshold

100 – 200ppm = eye, nose and throat irritation, short term memory change

300ppm = impairment of reaction time and short term memory

>3000ppm = CNS depression confusion and coma

10,000ppm = CNS depression, lung congestion and death

Exposure via ingestion

50 mg/kg = estimated fatal dose in adults

Inhalation

Immediate: Low concentration

Immediate: High Concentration

Headache

Dizziness

Irritation of the respiratory system

Nausea

Fatigue

Central Nervous System depression

Ingestion

Immediate: Low concentration

Immediate: High Concentration

Irritation of the mouth and oesophagus

Drowsiness

Dizziness

Disorientation

Vertigo

Nausea

Vomiting

Central Nervous System depression

Delayed

Heart problems and coma

May cause liver and/or renal damage

Skin contact

Immediate

Irritation delayed

Prolonged or repeated contact may cause dermatitis

Product has defatting effect on skin

Eye Contact

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Immediate

Irritating to eyes

Delayed

Visual disturbances including blurred vision

Inflammation

Twitching of the eyelid

### Propan-2-one, propanone, Acetone

LD50 oral rat	5800 mg/kg
LD50 dermal rabbit	7400 mg/kg bodyweight
LC50 inhalation rat (Vapours – mg/l/4h)	76 mg/l/4h

Skin corrosion/irritation

Not classified (Based on available data, the classification criteria are not met)

Additional information

Repeated exposure may cause skin dryness or cracking

Serious eye damage/irritation

Causes serious eye irritation

Respiratory or skin sensitisation

This product does not cause skin sensitisation

Additional information

Based on available data, the classification criteria are not met

Germ cell mutagenicity

Not classified (Based on available data, the classification criteria are not met)

Additional information

Based on available data, the classification criteria are not met

Carcinogenicity

Not classified (Based on available data, the classification criteria are not met)

Additional information

Based on available data, the classification criteria are not met

Reproductive toxicity

Not classified (Based on available data, the classification criteria are not met)

Additional information

Based on available data, the classification criteria are not met

STOS – single exposure

May cause drowsiness or dizziness

STOT – repeated exposure

Not classified (Based on available data, the classification criteria are not met)

Additional information

Based on available data, the classification criteria are not met

### Propan-2-one, propanone, Acetone

NOAEL (oral – rat 90 days)	900 mg/kg bodyweight/day
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Aspiration hazard

Not classified (Based on available data, the classification criteria are not met)

Additional information

Based on available data, the classification criteria are not met

### Toluene

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Toluene	>5000 mg/kg (Rat)	12000 mg/kg (Rabbit)	26700 ppm (Rat) 1h

Skin corrosion / irritation

Category 2

Test method

OECD 404

Test species

Rabbit

Observational endpoint

Irritating to skin

Serious eye damage / eye irritation

Not classified (Based on available data, the classification criteria are not met)

Respiratory or skin sensitisation

Not classified (Based on available data, the classification criteria are not met)

Germ cell mutagenicity

Not classified (Based on available data, the classification criteria are not met)

Carcinogenicity

Not classified (Based on available data, the classification criteria are not met)

There are no known carcinogenic chemicals in this product

Reproductive toxicity

Category 2

Reproductive effects

Experiments have shown reproductive toxicity effects on laboratory animals

Developmental effects

Developmental effects have occurred in experimental animals

Teratogenicity

Possible risk of harm to the unborn child

Specific target organ toxicity – single exposure

Category 3

Result / Target organs

Central Nervous System (CNS)

Specific target organ toxicity – repeated exposure

Category 2

Target organs

Liver

Kidney

Central Nervous System (CNS)

Blood

Spleen

Neuropsychological effects

Eyes

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Ears

Aspiration Hazard

Category 1

Symptoms / effects both acute and delayed

May cause central nervous system depression  
In halation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting

### Methanol

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Methanol	>1187 - 2769 mg/kg (Rat)	17100 mg/kg (Rabbit)	128.2 mg/l (Rat) 4h

Skin corrosion / irritation

Based on available data, the classification criteria are not met

Serious eye damage / eye irritation

Based on available data, the classification criteria are not met

Respiratory or skin sensitisation

Based on available data, the classification criteria are not met

Component	Test method	Test species	Study Result
Methanol	OECD Test guideline 406 Guinea Pig Maximisation Test (GPMT)	Guinea pig	Non-sensitising

Germ cell mutagenicity

Based on available data, the classification criteria are not met

Carcinogenicity

Based on available data, the classification criteria are not met  
are no known carcinogenic chemicals in this product

There

Reproductive toxicity

Based on available data, the classification criteria are not met

Component	Test method	Test species / Duration	Study Result
Methanol (CAS No 67-56-1 ( >95))	OECD Test guideline 416	Rat / Inhalation 2 Generation	NOAEC = 1.3 mg/l (air)

Developmental effects

Component substance is listed on California Proposition 65 as a developmental hazard

STOT – single exposure  
Results

Category 1  
Optic nerve  
Central nervous system (CNS)

STOT – repeated exposure

Based on available data, the classification criteria are not met

Target organs

None known

Aspiration Hazard

Based on available data, the classification criteria are not met

Symptoms / effects both acute and delayed

May cause blindness  
Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting

### Isopropanol

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Isopropanol Alcohol	5045 mg/kg (Rat) 3600 mg/kg (Mouse)	12800 mg/kg (Rat)	72.6 mg/l (rat) 4hr

Skin corrosion / irritation

Not classified (Based on available data, the classification criteria are not met)

Serious eye damage / eye irritation

Category 2

Respiratory or skin sensitisation

Not classified (Based on available data, the classification criteria are not met)

Germ cell mutagenicity

Not classified (Based on available data, the classification criteria are not met)

Carcinogenicity

Not classified (Based on available data, the classification criteria are not met)  
There are no known carcinogenic chemicals in this product

Reproductive toxicity

Not classified (Based on available data, the classification criteria are not met)

Specific target organ toxicity – single exposure

Category 3



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Result / Target organs	Central Nervous System (CNS)
Specific target organ toxicity – repeated exposure	Not classified (Based on available data, the classification criteria are not met)
Aspiration Hazard	Not classified (Based on available data, the classification criteria are not met)
Symptoms / effects both acute and delayed	May cause central nervous system depression In halation of high vapour concentrations may cause symptoms like headace, dizziness, tiredness, nausea and vomiting

### Dichloromethane

Acute Toxicity	LD50 Oral – Rat – male and female - >2,000 mg/kg (OECD Test Guideline 401) LC50 Inhalation – Mouse – 4h – 86 mg/l Remarks: (ECHA) Symptoms: Possible damages; mucosal irritations LD50 Dermal – Rat – Male and female - > 2,000 mg/kg (OECD Test Guideline 402)
Skin corrosion / irritation	Skin – Rabbit Result: Irritations – 4 h OECD Test Guideline 404) Repeated or prolonged exposure may cause skin irritation and dermatitis due to degreasing properties of the product
Serious eye damage / eye irritation	Eyes – rabbit Result: eye irritation Remarks: (ECHA) Risk of corneal clouding
Respiratory or skin sensitisation	Local lymph node assay (LLNA) – Mouse Result – negative (OECD Test guideline 429)
Germ cell mutagenicity	Test type: Mutagenicity (mammal cell test): chromosome aberration Test system: Chinese hamster ovary cells Metabolic Activation: with and without metabolic activation Method: OECD Test Guideline 473 Result: Positive  Test type: Ames test Test system: Salmonella typhimurium Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: positive  Test type: In vivo micronucleus test Species: Mouse Cell type: Bone marrow Application Route: oral Method: OECD Test Guideline 474 Result: negative
Carcinogenicity	No data available
Reproductive toxicity	No data available
Specific target organ toxicity – single exposure	Inhalation: may cause drowsiness or dizziness – Central nervous system
Specific target organ toxicity – repeated exposure	No data available
Aspiration hazard	No data available

### 11.2 Additional Information

No additional information

### Propan-2-one, propanone, Acetone

Viscosity, kinematic	0.405 mm <sup>2</sup> /s
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Potential adverse human health effects and symptoms

Based on available data, the classification criteria are not met

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### SECTION 12: Ecological Information

#### 12.1 Toxicity

Ecology - general

The product is not considered harmful to aquatic organism nor to cause long-term adverse effects in the environment

Component	Freshwater Fish	Water Flea	Freshwater Algae
<b>Xylenes</b>	LC50: = 780 mg/l, 96h semi-static (Cyprinus carpio) LC50: 23.53 - 29.97 mg/l, 96h static (Pimephales promelas) LC50: > 780 mg/l, 96h (Cyprinus carpio) LC50: 30.26 - 40.75 mg/l, 96h static (Poecilia reticulata) LC50: 7.711 - 9.591 mg/l, 96h static (Lepomis macrochirus) LC50: = 19 mg/l, 96h (Lepomis macrochirus) LC50: 13.1 - 16.5 mg/l, 96h flow-through (Lepomis macrochirus) LC50: 13.5 - 17.3 mg/l, 96h (Oncorhynchus mykiss) LC50: 2.661 - 4.093 mg/l, 96h static (Oncorhynchus mykiss) LC50: = 13.4 mg/l, 96h flow-through (Pimephales promelas)	LC50: = 0.6 mg/L, 48h (Gammarus lacustris) EC50: = 3.82 mg/l	

Component	Microtox	M-Factor
<b>Xylenes</b>	EC50 = 0.0084 mg/l 24 h	

#### Acetone

Acute aquatic toxicity  
Chronic aquatic toxicity

Not classified  
Not classified

#### Acetone

LC50 fish 1	5540 mg/l Onchorhynchus mykiss (Rainbow trout)
EC50 Daphnia 1	8800 mg/l

#### Toluene

Component	Freshwater Fish	Water Flea	Freshwater Algae
<b>Toluene</b>	50-70 mg/L LC50 96h 5-7 mg/L LC50 96h 15-19 mg/L LC50 96h 28 mg/L LC50 96h 12 mg/L LC50 96h	EC50: = 11.5 mg/L, 48h (Daphnia magna) EC50: 5.46 - 9.83 mg/L, 48h Static (Daphnia magna)	EC50: = 12.5 mg/L, 72h static (Pseudokirchneriella subcapitata) EC50: > 433 mg/L, 96h (Pseudokirchneriella subcapitata)

Component	Microtox	M-Factor
<b>Toluene</b>	EC50 = 19.7 mg/L 30 min	

Component	Freshwater Fish	Water Flea	Freshwater Algae
<b>Methanol</b>	Pimephales promelas: LC50 >10000 mg/l 96h	EC50 >10000 mg/l 24h	

Component	Microtox	M-Factor
<b>Methanol</b>	EC50 = 39000 mg/l 25 min EC50 = 40000 mg/l 15 min EC50 = 43000 mg/l 5 min	

Component	Freshwater Fish	Water Flea	Freshwater Algae
<b>Isopropanol</b>	LC50 = 9640 mg/l 96h Flow through (Pimephales promelas)	13299 mg/l EC50 = 48 h 9714 mg/l EC50 = 24 h	EC50 >1000 mg/l 96h (Desmodesmus subspicatus) EC50 >1000 mg/l 72h

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	LC50 >1400000 µg/l, 96h (Lepomis macrochirus) LC50 = 11130 mg/l, 96 static (Pimephales promelas) LC50 = 10000000 µg/l, 96h (Daphnia)		(Desmodesmus subspicatus)
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Component	Microtox	M-Factor
<b>Isopropanol</b>	=35390 mg/l EC50 Photobacterium phosphoreum 5 min	

### Dichloromethane

Toxicity to fish

Flow-through test LC50 – Pimephales promelas (fathead minnow) – 193.00 mg/l – 96h  
Remarks: (ECHA)

Toxicity to daphnia and other aquatic invertebrates Static test LC50 – Daphnia magna (Water flea) – 27 mg/l – 48 h (US-EPA)

Toxicity to bacteria Static test EC50 – activated sludge – 2,590 mg/l – 40 min (OECD Test Guideline 209)

## 12.2 Persistence and Degradability

### Xylenes

Persistence and degradability	Persistence is unlikely
Biodegradation	Contains substances known to be hazardous to the environment or not degradable in waste water treatment plants

### Acetone

Persistence and degradability	Readily biodegradable
Biodegradation	90 % after 28 days

### Toluene

Persistence	Persistence is unlikely based on information available
Degradability	86% (20d)

### Methanol

Persistence	Persistence is unlikely based on information available
Degradability	DT50 ~ 17.2d >94% after 20d

### Isopropanol / Isopropyl Alcohol

Persistence and degradability	Persistence is unlikely based on information available
Biodegradation	Expected to be biodegradable

### Dichloromethane

Biodegradability

Aerobic – Exposure time 28d  
Result: 68% - Readily biodegradable  
(OECD Test Guideline 301D)

## 12.3 Bioaccumulative Potential

Component	Log Pow	Bioconcentration factor (BCF)
<b>Xylenes</b>	3.15	0.5 - 15

### Acetone

Log Pow	-0.23
Bioaccumulative potential	Low

### Toluene

Log Pow	2.7
Bioconcentration Factor (BCF)	90

### Methanol

Log Pow	-0.77 @ 20°C
Bioconcentration Factor (BCF)	<10

### Isopropanol / Isopropyl Alcohol

Log Pow	0.05
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### Dichloromethane

#### Bioaccumulation

Cyprinus carpio (Carp) – 6 weeks  
- 250 µg/l (Dichloromethane)

Bioconcentration factor (BCF): 2 – 5.4  
(OECD Test Guideline 305)

Cyprinus carpio (Carp) – 6 Weeks  
- 25 µg/l (Dichloromethane)

Bioconcentration factor (BCF): 6 – 40  
(OECD Test Guideline 305)

### 12.4 Mobility in Soil

#### Xylenes

Spillage unlikely to penetrate soil

The product is insoluble and float on water

Is not likely mobile in the environment due to its low water solubility

#### Acetone

Surface tension	23.3 mN/m
Ecology - soil	Product evaporates when in contact with the air

#### Toluene

Mobility in soil	This product contains volatile organic compounds (VOC) which will evaporate easily from all surfaces. Spillage unlikely to penetrate soil This product is insoluble and floats on water Is likely mobile in the environment due to its low water solubility
Surface tension	27.73 mN/m at 25 °C

#### Methanol

Mobility in soil	This product contains volatile organic compounds (VOC) which will evaporate easily from all surfaces. Disperses rapidly in air Is likely mobile in the environment due to its low water solubility
Surface tension	0.02255 N/m @ 20°C

#### Isopropanol / Isopropyl Alcohol

Mobility in soil	This product contains volatile organic compounds (VOC) which will evaporate easily from all surfaces. Will like be mobile in the environment due to its volatility Disperses rapidly in air
Surface tension	22.7 mN/m at 20°C

### Dichloromethane

No data available

### 12.5 Results of BPT and vPvB Assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels 0.1% or higher

### 12.6 Endocrine Disrupting Properties

Endocrine disruptor information

This product does not contain any known or suspected endocrine disruptors

### 12.7 Other Adverse Effects

Persistent Organic Pollutant Ozone Depletion Potential

This product does not contain any known or suspected substance

## SECTION 13: Disposal Considerations

### 13.1 Waste Treatment Methods

Waste from residues / unused products

Waste is classified as hazardous  
Dispose of in accordance with European Directives on waste and hazardous waste  
Dispose in accordance with local regulations

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### Contaminated packaging

Avoid release to the environment.  
Dispose of empty containers and wastes safely.  
Safe handling: see section 7.  
Refer to manufacturer/supplier for information on recovery/recycling.  
Empty containers retain product residue (liquid and/or vapour) and can be dangerous

### Additional information

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.  
No smoking.  
Avoid the build-up of electrostatic charge  
Notice directive on waste 2008/98/EC

### European waste catalogue (2001/573/EC, 75/442/EEC, 91/689/EEC)

This material and its container must be disposed of as hazardous waste.  
Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

### Other Information

Do not flush to sewer  
Waste codes should be assigned by the user based on the application for which the product was used  
Can be landfilled or incinerated when in compliance with local regulations  
Do not let this chemicals enter the environment

### Do not empty into drains

## SECTION 14: Transport Information

### 14.1 UN Number

ADR/RID: 1263

IMDG: 1263

IATA: 1263

### 14.2 UN Proper Shipping Name

ADR/RID: Paint Related Material

IMDG: Paint Related Material

IATA: Paint Related Material

### 14.3 Transport Hazard Class(es)

ADR/RID: Class 3, Flammable

IMDG: Class 3, Flammable

IATA: Class 3, Flammable



### Transport Labels:

### 14.4 Packaging Group

ADR/RID: II

IMDG: II

IATA: II

### 14.5 Environmental Hazards

Dangerous for the environment

No

Marine pollutant

No

### 14.6 Special Precautions for User

#### Overland Transport

Classification code (ADR)	F1
Limited quantities (ADR)	1L
Excepted quantities (ADR)	E2
Packing instructions (ADR)	P001, IBC02, R001
Mixed packing provisions (ADR)	MP19
Portable tank and bulk container instructions (ADR)	T4
Portable tank and bulk container special provisions (ADR)	TP1
Tank code (ADR)	LGBF
Vehicle for tank carriage	FL
Transport category (ADR)	2
Special provisions for carriage – Operation (ADR)	S2, S20
Hazard identification number (Kemler No.)	33
Tunnel restriction code	D/E

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EAC code	2YE
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Transport by sea  
No data available  
Air Transport  
No data available

Inland Waterway Transport  
No data available

Rail Transport  
No data available

### 14.7 Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code

Code: IBC

No data available

## SECTION 15: Regulatory Information

### 15.1 Safety, Health and Environmental Regulations / Legislation Specific for the Substance or Mixture

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

No REACH Annex XVII restrictions

Acetone is not on the REACH candidate list

Acetone is not on the REACH Annex XIV list

Acetone is not subject to Regulation (EU) No 649/2012 of the European Parliament and the Council of 4 July 2012 concerning the export and import of hazardous chemicals

Acetone is not subject to Regulation (EC) No 850/2004 of the European Parliament and the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC

## SECTION 16: Other Information

### Abbreviations and acronyms

ADN	Europeans Agreement concerning the International Carriage of Dangerous Goods by inland waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by road
CLP	Classification labelling packaging regulation; Regulation (EC) No 1272/2008
DNEL	Derived No-effect level
DMEL	Derived minimal-effect level
LC50	Median lethal concentration
LD50	Median lethal dose
NOAEL	No-observed adverse effect level
IMDG	International maritime dangerous goods
IATA	International Air Transport Association
EC50	Median effective concentration
PNEC	Predicted No-effect concentration
PBT	Persistent Bioaccumulative toxic
REACH	Reach, Evaluation, Authorisation and Restriction of Chemicals (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by rail
SDS	Safety Data Sheet
vPvB	Very persistent and very bioaccumulative
STP	Sewage treatment plant

### Data sources

REGULATION (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC and amending regulation (EC) No 1907/2006

Full test of H and EUH Statements referred to under sections 2 and 3

Flam. Liq. (Category 2)	H225
Aspiration Toxicity (Category 1)	H304
Acute Dermal Tox (Category 4)	H312
Acute Inhalation Tox – vapours (Category 4)	H332
Skin corrosion/irritation (Category 2)	H315
Eye irritation (Category 2)	H319
STOT SE (Category 2)	H373
Chronic aquatic toxicity (Category 3)	H412
Reproductive toxicity (Category 2)	H361
Specific target organ toxicity – single exposure (Category 3) Narcosis	H336

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Specific target organ toxicity – repeated exposure (Category 2)

H373

H225  
H304  
H312+H332

Highly Flammable liquid and vapour  
May be fatal if swallowed and enters airways

H315  
H319  
H335  
H361  
H373  
H412  
H336  
H373

Harmful in contact with skin or if inhaled  
Causes skin irritation  
Causes serious eye irritation  
May cause respiratory irritation  
Suspected of damaging fertility or the unborn child  
May cause damage to organs through prolonged or repeated exposure  
Harmful to aquatic life with long lasting effects  
May cause drowsiness or dizziness  
May cause damage to organs through prolonged or repeated exposure

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