

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

Printing date 25.07.2018

Version number 11

Revision: 17.05.2016

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

- **1.1 Product identifier**
- **Trade name:** Cleaner
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
Construction chemicals
- **Application of the substance / the mixture** Remover
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Fix 46 Supplier  
Unit 9 , Millenium Park,  
Foxhole, Youghal  
Co. Cork Ireland  
Tel. 089 46 46 646
- **Further information obtainable from:** info@fix46.com
- **1.4 Emergency telephone number:** European emergency number: 112 (24h)

**SECTION 2: Hazards identification**

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



GHS02 flame

Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.



GHS07

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.
- **Hazard pictograms**



GHS02



GHS07

- **Signal word** Danger
- **Hazard-determining components of labelling:** ethyl acetate
- **Hazard statements**  
H222 Extremely flammable aerosol.  
H229 Pressurised container: May burst if heated.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.
- **Precautionary statements**  
P102 Keep out of reach of children.  
P261 Avoid breathing spray.

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- P271 Use only outdoors or in a well-ventilated area.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P337+P313 If eye irritation persists: Get medical advice/attention.  
 P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**Additional information:**

- Do not pierce or burn, even after use.  
 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Do not spray on an open flame or other ignition source.  
 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 EUH066 Repeated exposure may cause skin dryness or cracking.

**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: 67-64-1 EINECS: 200-662-2 Reg.nr.: 01-2119471330-49-xxxx	acetone Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	19.0 - 34.0%
CAS: 141-78-6 EINECS: 205-500-4 Reg.nr.: 01-2119475103-46-xxxx	ethyl acetate Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	19.0 - 34.0%
CAS: 67-63-0 EINECS: 200-661-7 Reg.nr.: 01-2119457558-25-XXXX	propan-2-ol Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	9.0 - 19.0%
CAS: 74-98-6 EINECS: 200-827-9 Reg.nr.: 01-21194869440-21-xxxx	propane Flam. Gas 1, H220; Press. Gas (Comp.), H280	< 10.0%
CAS: 106-97-8 EINECS: 203-448-7 Reg.nr.: 01-2119474691-31-xxxx	butane Flam. Gas 1, H220; Press. Gas (Comp.), H280	< 10.0%
CAS: 75-28-5 EINECS: 200-857-2 Reg.nr.: 01-2119485395-27-xxxx	isobutane Flam. Gas 1, H220; Press. Gas (Comp.), H280	< 10.0%

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

**SECTION 4: First aid measures**

**4.1 Description of first aid measures**

**General information:** Immediately remove any clothing soiled by the product.

**After inhalation:**

- Supply fresh air and to be sure call for a doctor.  
 Use a respiratory bag or breathing device.  
 In case of unconsciousness place patient stably in side position for transportation.

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- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:**  
Rinse out mouth and then drink plenty of water.  
Do not induce vomiting; call for medical help immediately.
- **4.2 Most important symptoms and effects, both acute and delayed**  
Stupor.  
Headache.  
Unconsciousness.  
Coughing.  
Nausea.  
Dizziness.
- **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:**  
Carbon dioxide. Water spray. Fire-extinguishing powder. Alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet.
- **5.2 Special hazards arising from the substance or mixture**  
Can form explosive gas-air mixtures.  
Formation of toxic gases is possible during heating or in case of fire.
- **5.3 Advice for firefighters**
- **Protective equipment:**  
Do not inhale explosion gases or combustion gases.  
Wear self-contained respiratory protective device.
- **Additional information** Cool endangered receptacles with water spray.

**SECTION 6: Accidental release measures**

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Keep away from ignition sources.  
Do not breathe gas / fumes / vapour / spray.  
Use respiratory protective device against the effects of fumes / dust / aerosol.  
Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:** Do not allow to enter sewers / surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**  
Allow to evaporate.  
Ensure adequate ventilation.
- **6.4 Reference to other sections** See Section 13 for disposal information.

**SECTION 7: Handling and storage**

- **7.1 Precautions for safe handling**  
Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).  
Ensure good ventilation / exhaustion at the workplace.  
Open and handle receptacle with care.

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

Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.  
Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.  
Do not spray onto a naked flame or any incandescent material.

· **7.2 Conditions for safe storage, including any incompatibilities**

· **Storage:**

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

Store in a cool location.  
Observe official regulations on storing packagings with pressurised containers.

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

Store away from oxidising agents.  
Do not store together with reducing agents, heavy-metal compounds, acids and alkalis.

· **Further information about storage conditions:**

Store in vertical position in closed original containers.  
Store at temperature from +5°C to +30°C.  
Protect from heat and direct sunlight.  
Store under lock and key and out of the reach of children.

· **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:**

**CAS: 67-64-1 acetone**

WEL	Short-term value: 3620 mg/m <sup>3</sup> , 1500 ppm Long-term value: 1210 mg/m <sup>3</sup> , 500 ppm
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**CAS: 141-78-6 ethyl acetate**

WEL	Short-term value: 400 ppm Long-term value: 200 ppm
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**CAS: 67-63-0 propan-2-ol**

WEL	Short-term value: 1250 mg/m <sup>3</sup> , 500 ppm Long-term value: 999 mg/m <sup>3</sup> , 400 ppm
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**CAS: 106-97-8 butane**

WEL	Short-term value: 1810 mg/m <sup>3</sup> , 750 ppm Long-term value: 1450 mg/m <sup>3</sup> , 600 ppm Carc (if more than 0.1% of buta-1.3-diene)
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· **DNELs**

**CAS: 67-64-1 acetone**

Dermal	DNEL	62 mg/kg/day (General population, consumers) 186 mg/kg/day (Workers)
Inhalative	DNEL	200 mg/m <sup>3</sup> (General population, consumers) 2420 mg/m <sup>3</sup> (Workers)

**CAS: 141-78-6 ethyl acetate**

Oral	DNEL	4.5 mg/kg/day (General population, consumers)
Dermal	DNEL	37 mg/kg/day (General population, consumers) 63 mg/kg/day (Workers)

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Inhalative	DNEL	734 mg/m <sup>3</sup> (General population, consumers) 1468 mg/m <sup>3</sup> (Workers)
<b>CAS: 67-63-0 propan-2-ol</b>		
Oral	DNEL	26 mg/kg/day (General population, consumers)
Dermal	DNEL	319 mg/kg/day (General population, consumers) 888 mg/kg/day (Workers)
Inhalative	DNEL	89 mg/m <sup>3</sup> (General population, consumers) 500 mg/m <sup>3</sup> (Workers)

· **PNECs**

**CAS: 67-64-1 acetone**

(freshwater)	10.6 mg/l
(sea water)	1.06 mg/l
(freshwater sediments)	30.4 mg/kg
(sea water sediments)	30.4 mg/kg
(soil)	29.5 mg/kg

**CAS: 141-78-6 ethyl acetate**

(freshwater)	0.26 mg/l
(sea water)	0.026 mg/l
(freshwater sediments)	0.34 mg/kg
(sea water sediments)	0.034 mg/kg
(soil)	0.22 mg/kg

**CAS: 67-63-0 propan-2-ol**

(freshwater)	140.9 mg/l
(sea water)	140.9 mg/l
(freshwater sediments)	552 mg/kg
(sea water sediments)	28 mg/kg
(soil)	552 mg/kg

· **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.
- Do not eat, drink, smoke or sniff while working.
- Avoid contact with the eyes and skin.

· **Protection of hands:**



Protective gloves

EN 374

The glove material has to be impermeable and resistant to the product / the substance / the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

· **Material of gloves**

Polyethylene gloves.

Recommended thickness of the material: <sup>3</sup> 0.02 mm.

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

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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**

<sup>3</sup> 10 min

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

EN 166

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

**SECTION 9: Physical and chemical properties**

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

· <b>Form:</b>	Aerosol
· <b>Colour:</b>	Colorless
· <b>Odour:</b>	Characteristic

· **Change in condition**

· <b>Melting point/freezing point:</b>	-160 °C
· <b>Initial boiling point and boiling range:</b>	-12 °C

· <b>Flash point:</b>	-10 °C
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· <b>Auto-ignition temperature:</b>	> +365 °C (butane)
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· <b>Explosive properties:</b>	Heating may cause an explosion.
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· **Explosion limits:**

· <b>Oxidising properties</b>	Extremely flammable.
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· <b>Vapour pressure at 20 °C:</b>	> 500 kPa
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· <b>Density:</b>	Not determined
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· **Solubility in / Miscibility with water:**

Soluble

· **9.2 Other information**

No further relevant information available

**SECTION 10: Stability and reactivity**

· **10.1 Reactivity** No further relevant information available.

· **10.2 Chemical stability**

· **Thermal decomposition / conditions to be avoided:**

To avoid thermal decomposition do not overheat.

No decomposition if used according to specifications.

· **10.3 Possibility of hazardous reactions** Reacts with oxidising agents.

· **10.4 Conditions to avoid** No further relevant information available.

· **10.5 Incompatible materials:** No further relevant information available.

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· **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

**SECTION 11: Toxicological information**

· **11.1 Information on toxicological effects**

· **Acute toxicity** Based on available data, the classification criteria are not met.

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

**CAS: 141-78-6 ethyl acetate**

Oral	LD50	>200 mg/kg (fish) 5620 mg/kg (rabbit)
Inhalative	LC50/4h	1600 mg/l (rat)

**CAS: 67-64-1 acetone**

Oral	LD50	5800 mg/kg (rat)
Dermal	LD50	20000 mg/kg (rabbit)
Inhalative	LC50/4h	7.5 mg/l (fish)

**CAS: 67-63-0 propan-2-ol**

Oral	LD50	>100 mg/kg (fish) 5045 mg/kg (rat)
Dermal	LD50	12800 mg/kg (rabbit)
Inhalative	LC50/4h	30 mg/l (rat)

· **Primary irritant effect:**

· **Skin corrosion/irritation** Based on available data, the classification criteria are not met.

· **Serious eye damage/irritation**

Causes serious eye irritation.

· **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.

· **Germ cell mutagenicity** Based on available data, the classification criteria are not met.

· **Carcinogenicity** Based on available data, the classification criteria are not met.

· **Reproductive toxicity** Based on available data, the classification criteria are not met.

· **STOT-single exposure**

May cause drowsiness or dizziness.

· **STOT-repeated exposure** Based on available data, the classification criteria are not met.

· **Aspiration hazard** Based on available data, the classification criteria are not met.

**SECTION 12: Ecological information**

· **12.1 Toxicity**

· **Aquatic toxicity:**

**CAS: 67-63-0 propan-2-ol**

EC50 | >100 mg/kg (daphnia)

**CAS: 141-78-6 ethyl acetate**

EC50 | >700 mg/kg (daphnia)

**CAS: 67-64-1 acetone**

EC50 | 10 mg/kg (daphnia)

· **12.2 Persistence and degradability** Easily biodegradable

· **12.3 Bioaccumulative potential** Non significant accumulation in organisms

· **12.4 Mobility in soil** No further relevant information available.

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· **Additional ecological information:**

· **General notes:**

Due to available data on eliminability/decomposition and bioaccumulation potential a prolonged damage of the environment is unlikely.

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

· **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**

Do not allow to enter surface or ground water.

Dispose of in a safe manner in accordance with local / national regulations.

Assigning a code from the waste catalogue depends on the sector, in which the user operates, as well as on arrangements made between the waste generator and a competent environment protection department.

Substance/mixture as a waste compound brings hazardous properties HP: 3, 4, 5

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· **European waste catalogue**

15 01 11*	metallic packaging containing a hazardous solid porous matrix (for example asbestos), including empty pressure containers
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· **Uncleaned packaging:**

· **Recommendation:** Disposal must be made according to official regulations.

**SECTION 14: Transport information**

· **14.1 UN-Number**

· **ADR, IMDG, IATA**

UN1950

· **14.2 UN proper shipping name**

· **ADR, IMDG, IATA**

AEROSOLS

· **14.3 Transport hazard class(es)**

· **ADR**



· **Class**

2.5F Gases.

· **Label**

2.1

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· **IMDG, IATA**



· **Class** 2 5F Gases.  
· **Label** 2.1

· **14.5 Environmental hazards:**

· **Marine pollutant:** No.

· **14.6 Special precautions for user** Warning: Gases.

· **Danger code (Kemler):** -

· **EMS Number:** F-D,S-U

· **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code** Not applicable.

· **Transport/Additional information:**

· **ADR**

· **Limited quantities (LQ)** 1L

· **Transport category** 2

· **Tunnel restriction code** D

· **UN "Model Regulation":** UN1950 AEROSOLS, 2.1

**SECTION 15: Regulatory information**

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

· **Directive 2012/18/EU**

· **Qualifying quantity (tonnes) for the application of lower-tier requirements** 150 t

· **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t

· **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3

· **Other regulations, limitations and prohibitive regulations**

· **Substances of very high concern (SVHC) according to REACH, Article 57**

None of the ingredients is listed.

· **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**

H220 Extremely flammable gas.

H225 Highly flammable liquid and vapour.

H280 Contains gas under pressure; may explode if heated.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

· **Department issuing SDS:** Product safety department.

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**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)  
DNEL: Derived No-Effect Level (REACH)  
PNEC: Predicted No-Effect Concentration (REACH)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
SVHC: Substances of Very High Concern  
vPvB: very Persistent and very Bioaccumulative  
Flam. Gas 1: Flammable gases – Category 1  
Aerosol 1: Aerosols – Category 1  
Press. Gas (Comp.): Gases under pressure – Compressed gas  
Flam. Liq. 2: Flammable liquids – Category 2  
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2  
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

GB