

## Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date: 25.11.2009

Revision: 19.11.2009

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

**Product details:****Trade name:** 4050A Safety Wash II Cleaner Degreaser**Application of the substance / the preparation**  
Cleaning agent/ Cleaner  
Degreaser**Supplier/Manufacturer:**MG Chemicals  
9347 - 193rd Street  
Surrey, B.C., Canada  
V4N 4E7

1-800-201-8822 - 0

1-604-888-3084 - 0

**Distributor:**Solid State Supplies Ltd.  
Eastlands Lane  
Paddock Wood  
Kent, TN12 6BU  
United Kingdom  
Telephone: +44 (0) 1892 836836[www.sssp.com](http://www.sssp.com)**Email competent person:** [sonja.fischer@kft.de](mailto:sonja.fischer@kft.de)**Information department:**See supplier/manufacturer  
Technical Support: Phone 1-604-888-3084 - 128  
For updates on this SDS please download from [www.mgchemicals.com](http://www.mgchemicals.com)**Emergency information:** National Poisons Information Centre Tel.: +44 (0)870 6006266

### 2 Hazards identification

**Hazard description:**Xi Irritant  
F+ Extremely flammable  
N Dangerous for the environment**Information pertaining to particular dangers for man and environment:**

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

Warning! Pressurized container.

Has a narcotizing effect.

R 12 Extremely flammable.

R 36/38 Irritating to eyes and skin.

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

R 67 Vapours may cause drowsiness and dizziness.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.

100.0 % by mass of the contents are flammable

**Classification system:**

The classification was made according to the latest editions of the EC-lists, and expanded using company data and specialized literature.

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- **GHS label elements**

**Danger**

H222 - Extremely flammable aerosol.

**Warning**

H315 - Causes skin irritation.

H319 - Causes serious eye irritation.

H336 - May cause drowsiness or dizziness.



H411 - Toxic to aquatic life with long lasting effects.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.

100.0 % by mass of the contents are flammable

- **General:** P102 Keep out of reach of children.

- **Prevention:**

P262 Do not get in eyes, on skin, or on clothing.

P273 Avoid release to the environment.

P271 Use only outdoors or in a well-ventilated area.

P260 Do not breathe spray.

- **Response:**

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

- **Disposal:**

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Additional information:**

Upon strong heating flammable vapour/air mixtures are formed which are heavier than air and spread on the ground.

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### 3 Composition/information on ingredients

- **Chemical characterization**

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

- **Dangerous components:**

CAS: 75-37-6	1,1-difluoroethane	35%
EINECS: 200-866-1	F+; R 12	
	Danger: flame 2.2/1	
	Warning: gas cylinder 2.5/L	
CAS: 67-63-0	propan-2-ol	30-45%
EINECS: 200-661-7	Xi, F; R 11-36-67	
Index number: 603-117-00-0	Danger: flame 2.6/2	
	Warning: exclamation mark 3.3/2, 3.8/3	

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CAS: 107-83-5 EINECS: 203-523-4 Index number: 601-007-00-7	2-methylpentane Xn, Xi, F, N; R 11-38-51/53-65-67 Danger: flame 2.6/2; health hazard 3.10/1 Warning: exclamation mark 3.2/2, 3.8/3 environment 4.1.C/2	15-22%
CAS: 96-14-0 EINECS: 202-481-4 Index number: 601-007-00-7	3-methylpentane Xn, Xi, F, N; R 11-38-51/53-65-67 Danger: flame 2.6/2; health hazard 3.10/1 Warning: exclamation mark 3.2/2, 3.8/3 environment 4.1.C/2	5-10%
CAS: 79-29-8 EINECS: 201-193-6 Index number: 601-007-00-7	2,3-dimethylbutane Xn, Xi, F, N; R 11-38-51/53-65-67 Danger: flame 2.6/2; health hazard 3.10/1 Warning: exclamation mark 3.2/2, 3.8/3 environment 4.1.C/2	4-8%
CAS: 64-17-5 EINECS: 200-578-6 Index number: 603-002-00-5	ethanol F; R 11 Danger: flame 2.6/2	7-13%
CAS: 75-83-2 EINECS: 200-906-8 Index number: 601-007-00-7	2,2-dimethylbutane Xn, Xi, F, N; R 11-38-51/53-65-67 Danger: health hazard 3.10/1 Warning: exclamation mark 3.2/2, 3.8/3 environment 4.1.C/2	3-6%
CAS: 110-54-3 EINECS: 203-777-6 Index number: 601-037-00-0	n-hexane Repr. Cat. 3; Xn, Xi, F, N; R 11-38-48/20-62-51/53-65-67 Danger: flame 2.6/2; health hazard 3.10/1, 3.7/2, 3.9/2 Warning: exclamation mark 3.2/2, 3.8/3 environment 4.1.C/2	< 2.5%

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

#### 4 First aid measures

· **General information:**

Remove affected persons from danger area and lay them down.  
Immediately remove any clothing soiled by the product.

· **After inhalation:**

Remove victim from contaminated area. If breathing is difficult, give oxygen. If breathing stops, provide artificial respiration. Call a doctor.

Supply fresh air.

In case of unconsciousness, place patients on their side in a stable position for transportation.

· **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.  
If skin irritation continues, consult a doctor.

· **After eye contact:**

Rinse the eyes with open eyelids for 10 - 15 minutes with water. Then consult a doctor or better an eye specialist.

· **After swallowing:**

Drink 2-4 glasses of water.

Never give anything by mouth to a unconscious person.

Do not induce vomiting.

If vomiting occurs spontaneously:

Hold the head of the casualty low with the body in a prone position in order to avoid aspiration.

Seek medical treatment.

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- **Information for doctor:**
  - **The following symptoms may occur:**
    - Burning of the eyes.
    - watering eyes
    - Irritation of eyes and mucous membrane.
    - Redness of the skin
  - After inhalation:
    - irritant effect on the respiratory tract
    - Headache
    - stupor
    - Unconsciousness
  - After swallowing:
    - Gastric or intestinal disorders.
    - Vomiting
    - Diarrhoea
  - **Treatment:** Symptomatic treatment
- 

### 5 Fire fighting measures

- **Suitable extinguishing agents:**
    - Water jet spray
    - Extinguishing powder
    - Carbon dioxide (CO<sub>2</sub>)
    - Use fire fighting measures that suit the environment.
  - **For safety reasons unsuitable extinguishing agents:** Direct jet water
  - **Special hazards caused by the material, its products of combustion or resulting gases:**
    - vapors travel along the ground to a distant ignition source and flash back.
    - Dangerous decomposition product see chapter 10: stability and reactivity
  - **Protective equipment:**
    - Do not inhale combustion vapours.
    - Wear self-contained respiratory protective device.
  - **Additional information:**
    - Heating leads to pressure increase entailing danger of bursting and explosion. Immediately cool neighbouring packages and containers with sprayed water and, if possible, remove them out of the danger zone
- 

### 6 Accidental release measures

- **Person-related safety precautions:**



Wear protective equipment. Keep unprotected persons away.

Do not smoke - keep ignition sources away  
Ensure adequate ventilation

- **Measures for environmental protection:**
  - Do not allow product to reach sewage system or any water course.
  - Inform respective authorities in case of seepage into water course or sewage system.
  - Do not allow to penetrate the ground/soil.
  - In case of seepage into the ground inform responsible authorities.
- **Measures for cleaning/collecting:**
  - Ensure adequate ventilation.
  - Absorb with non-combustible material like sand, soil or diatomite.
  - Send for recovery or disposal in suitable receptacles.
  - Wash spill area with soap and water.

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 Dispose contaminated material as waste according to item 13.
 

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### 7 Handling and storage

- **Handling**

- **Information for safe handling:**

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Avoid contact with eyes and skin.

Avoid inhalation of vapours.

- **Information about protection against explosions and fires:**



Keep ignition sources away - Do not smoke.

Protect against electrostatic charges

Pressurized 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 on a naked flame or any incandescent material.

- **Storage**

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

Store in a cool location.

Observe official regulations on storing packagings with pressurized containers.

Pay attention to special rules for the storage of flammable liquids.

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

Store away from foodstuffs.

Store away from feed.

Store away from reducing agents.

Store away from oxidizing agents.

- **Further information about storage conditions:**

Keep receptacle tightly sealed.

Do not gas tight seal receptacle.

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight.

- **Storage class 2B** pressurized gas containers

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### 8 Exposure controls and personal protection

- **Additional information about design of technical systems:**

Install appropriate mechanical ventilation.

No further data; see item 7.

- **Components with limit values that require monitoring at the workplace:**

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

WEL (Great Britain)      Short-term value: 1250 mg/m<sup>3</sup>, 500 ppm

Long-term value: 999 mg/m<sup>3</sup>, 400 ppm

OEL (Ireland)            Short-term value: 400 ppm

Long-term value: 200 ppm

Sk

**64-17-5 ethanol**

WEL (Great Britain)      Long-term value: 1920 mg/m<sup>3</sup>, 1000 ppm

OEL (Ireland)            Long-term value: 1900 mg/m<sup>3</sup>, 1000 ppm

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**110-54-3 n-hexane**IOELV (European Union) Long-term value: 72 mg/m<sup>3</sup>, 20 ppmWEL (Great Britain) Long-term value: 72 mg/m<sup>3</sup>, 20 ppmOEL (Ireland) Long-term value: 70 mg/m<sup>3</sup>, 20 ppm

IOELV

- **Additional information:** The lists that were valid during the creation were used as basis.

- **Personal protective equipment**

- **General protective and hygienic measures:**

Do not eat, drink, smoke or sniff while working.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

Provide eye bath.

- **Breathing equipment:**

Not necessary, if you follow the instructions for use.

In case of unintentional release of substance, exceeding the occupational exposure limit value:

Short term filter device:

Filter AX. (colour coding brown; DIN EN 141)

- **Protection of hands:**

Chemical resistant gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

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

- **Material of gloves:**

The selection of suitable depends upon the material, and also upon the quality of the gloves. The degree of protection will vary 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 penetration time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:** Tightly sealed goggles.

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

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## 9 Physical and chemical properties:

- **General Information**

**Form:** Aerosol  
**Colour:** According to product specification  
**Odour:** Ether-like

- **Change in condition:**

**Melting point/Melting range:** not determined**Boiling point/Boiling range:** not determined

- **Flash point:** -29°C

- **Flammability (solid, gaseous)**

**Heat of Combustion:** 28,71 kJoule/g

- **Ignition temperature:** 300°C

- **Self ignition temperature:** Product is not self-igniting.

- **Danger of explosion:** Aerosol.  
Pressurized container.  
Do not pierce.

- **Vapour pressure at 21°C:** 3310 hPa

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- **Density:** 0.85 g/cm<sup>3</sup>
  - **Solubility in / Miscibility with Water:** Miscible
  - **pH-value:** 7
- 

### 10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**  
Avoid temperatures >50°C.  
No decomposition if used and stored according to specifications.
  - **Materials to be avoided:**  
Alkali metals  
Alkaline-earth metals  
Aluminium powder  
Zinc powder  
Magnesium  
Beryllium powder  
Acids  
Acid chlorides  
Acid anhydrides  
Strong oxidants  
Reducing agents
  - **Dangerous reactions:** Reactions with above-mentioned substances
  - **Dangerous products of decomposition:**  
In the case of fire or at high temperatures the formation of the following decomposition products is possible.  
Carbon monoxide and carbon dioxide  
Formaldehyde  
Acid vapours  
Halogens  
Halogen acids  
carbonyl halides
- 

### 11 Toxicological information

- **Acute toxicity:**
- **LD/LC50 values that are relevant for classification:**  
Oral LD<sub>50</sub> 28000 mg/kg (rat)  
Inhalative LC<sub>50</sub>/4h >3125 ppm (rat)
- **Primary irritant effect:**
- **on the skin:**  
Irritant to skin and mucous membranes.  
Continuing or repeated contact with the skin may cause dermatitis.
- **on the eye:** Irritating effect.
- **Sensitization:** May cause allergic skin reaction.
- **Other information (about experimental toxicology):**
- **Carcinogenic effects:** Presently there are no information available indicating carcinogenic, mutagenic or teratogenic effects.
- **Subacute to chronic toxicity:** Prolonged and/or frequent exposition may damage liver and kidneys.
- **Additional toxicological information:**  
The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:  
Irritant  
After swallowing: irritations of mucous membranes in the mouth, pharynx, oesophagus and gastrointestinal tract.

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### 12 Ecological information

- **Ecotoxicological effects:**
- **Aquatic toxicity:**

#### 67-63-0 propan-2-ol

EC<sub>50</sub>/48h > 9714 mg/l (daphnia magna)EC<sub>50</sub>/72h > 1450 mg/l (algae)LC<sub>50</sub>/96h 10400 mg/l (Pimephales promelas)

#### 64-17-5 ethanol

EC<sub>50</sub>/24h 10800 mg/l (daphnia magna)LC<sub>50</sub>/48h 8140 mg/l (leuciscus idus)LC<sub>50</sub>/96h 14200 mg/l (Pimephales promelas)

#### 75-37-6 1,1-difluoroethane

EC<sub>50</sub>/48h 720 mg/l (daphnia magna)LC<sub>50</sub>/96h 733 mg/l (fish)

- **Remark:** Toxic for fish

- **General notes:**

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water.

According to appendix 4 of VwVwS dated 27.7.2005 (German regulation)

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

### 13 Disposal considerations

- **Product:**
- **Recommendation:**



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

Disposal according to instructions of local authorities.

- **Uncleaned packagings:**

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

### 14 Transport information

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



- **ADR/RID class:** 2 5F Gases.
- **Danger code (Kemler):** -
- **UN-Number:** 1950
- **Packaging group:** -
- **Label:** 2.1
- **Special marking:** Symbol (fish and tree)
- **Description of goods:** 1950 AEROSOLS
- **Limited quantities (LQ)** LQ2
- **Transport category** 2
- **Tunnel restriction code** D

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· **Remarks:** Limited Quantity: 1 kg inner packing, 30 kg packaging unit

· **Maritime transport IMDG:**



· **IMDG Class:** 2.1  
 · **UN Number:** 1950  
 · **Label:** 2.1  
 · **Packaging group:** -  
 · **EMS Number:** F-D,S-U  
 · **Marine pollutant:** No  
 Symbol (fish and tree)  
 · **Proper shipping name:** AEROSOLS

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



· **ICAO/IATA Class:** 2.1  
 · **UN/ID Number:** 1950  
 · **Label:** 2.1  
 · **Packaging group:** -  
 · **Proper shipping name:** AEROSOLS, flammable  
 · **Remarks:** Packing Instructions:  
 For Limited Quantities: Y203(Max Net Qty/Pkg: 30 kg G)  
 Passenger and Cargo Aircraft: 203 (Max Net Qty/Pkg: 75 kg)  
 Cargo Aircraft only: 203 (Max Net Qty/Pkg: 150 kg)  
 · **UN "Model Regulation":** UN1950, AEROSOLS, 2.1  
 · **Environmental hazards:** Product contains environmentally hazardous substances: 2-methylpentane

### 15 Regulatory information:

· **Markings according to EC guidelines:**

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

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



Xi Irritant  
 F+ Extremely flammable  
 N Dangerous for the environment

· **Risk phrases:**

12 Extremely flammable.  
 36/38 Irritating to eyes and skin.  
 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
 67 Vapours may cause drowsiness and dizziness.

· **Safety phrases:**

2 Keep out of the reach of children.  
 23 Do not breathe aerosol.  
 25 Avoid contact with eyes.  
 29/56 Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.  
 51 Use only in well-ventilated areas.

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- **Special labelling of certain preparations:**

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.

100.0 % by mass of the contents are flammable

- **National regulations**

- **Technical guidance (air):**

- **Class Share in %**

· I	1.6
NK	37.1

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### 16 Other information:

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

- **Relevant R-phrases:**

11 Highly flammable.

12 Extremely flammable.

36 Irritating to eyes.

38 Irritating to skin.

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

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

62 Possible risk of impaired fertility.

65 Harmful: may cause lung damage if swallowed.

67 Vapours may cause drowsiness and dizziness.

- **Department issuing MSDS:**

KFT Chemieservice GmbH

Im Leuschnerpark. 3 D-64347 Griesheim

Postfach 1451 D-64345 Griesheim

Tel.: +49 6155 86829-0 Fax: +49 6155 86829-25

Safety Data Sheet Service: +49 6155 86829-22

- **Contact:** Dr. Sonja Fischer

- **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)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

- **Sources:**

MSDS of the supplier

Information provided by the manufacturer

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