



SAFETY DATA SHEET

Brake and Clutch Cleaner

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

1.1. Product identifier

Product name Brake and Clutch Cleaner

Product number SXBC5 / 25

Internal identification

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses Brake and clutch cleaning

Uses advised against Use only for intended applications.

1.3. Details of the supplier of the safety data sheet

Supplier Central Solutions (GB) Ltd
Sol-X House
Windmill Lane
Norton
Doncaster
DN6 9AT
United Kingdom
01302 708895
01302 708895
info@solxsolutions.com

1.4. Emergency telephone number

Emergency telephone 01302 708895 (24 Hours) (in use from 13/01/13)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

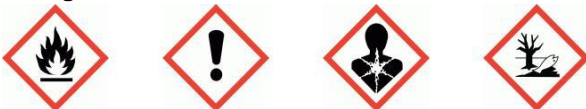
Physical hazards Flam. Liq. 2 - H225

Health hazards Skin Irrit. 2 - H315 Muta. 1B - H340 Carc. 1B - H350 Asp. Tox. 1 - H304

Environmental hazards Aquatic Chronic 2 - H411

2.2. Label elements

Pictogram



Signal word

Danger

Brake and Clutch Cleaner

Hazard statements	<p>H225 Highly flammable liquid and vapour. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H340 May cause genetic defects. H350 May cause cancer. H411 Toxic to aquatic life with long lasting effects.</p>
Precautionary statements	<p>P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P273 Avoid release to the environment. P308+P313 IF exposed or concerned: Get medical advice/ attention. P331 Do NOT induce vomiting. P362+P364 Take off contaminated clothing and wash it before reuse.</p>
Contains	Odourless degreaser
Supplementary precautionary statements	<p>P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P233 Keep container tightly closed. P240 Ground/ bond container and receiving equipment. P241 Use explosion-proof electrical equipment. P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge. P264 Wash contaminated skin thoroughly after handling. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P302+P352 IF ON SKIN: Wash with plenty of water. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower. P332+P313 If skin irritation occurs: Get medical advice/ attention. P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish. P391 Collect spillage. P301 IF SWALLOWED: P313 Get medical advice/ attention. P403+P235 Store in a well-ventilated place. Keep cool. P405 Store locked up. P501 Dispose of contents/ container in accordance with national regulations.</p>

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

<p>Odourless degreaser >90% CAS number: 64742-49-0</p>
<p>Classification Flam. Liq. 2 - H225 Skin Irrit. 2 - H315 Muta. 1B - H340 Carc. 1B - H350 Asp. Tox. 1 - H304 Aquatic Chronic 2 - H411</p>

Brake and Clutch Cleaner

PROPAN-2-OL		<5%
CAS number: 67-63-0	EC number: 200-661-7	REACH registration number: 01-2119457558-25-XXXX
Classification		
Flam. Liq. 2 - H225		
Eye Irrit. 2 - H319		
STOT SE 3 - H336		

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Remove casualty from exposure ensuring one's own safety whilst doing so. If inhaled remove person to fresh air and keep comfortable for breathing. If breathing stops, provide artificial respiration. Get medical attention.
Ingestion	Do not induce vomiting. If conscious give 500ml of water to drink immediately. Wash out mouth with water. Consult a doctor.
Skin contact	Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash skin thoroughly with soap and water. If irritation occurs get medical advice/attention.
Eye contact	If in eyes rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Transfer to hospital for specialist examination.

4.2. Most important symptoms and effects, both acute and delayed

Inhalation	There may be irritation of the throat with a feeling of tightness in the chest. May cause an asthma-like shortness of breath.
Ingestion	Overexposure may cause the following adverse effects: Unconsciousness. Nausea, vomiting.
Skin contact	There may be irritation and redness at the site of contact. An itchy rash may occur at the site of contact.
Eye contact	There may be pain and redness.

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

Notes for the doctor	If exposed or concerned get medical advice/attention.
Specific treatments	Eye bathing equipment should be available on the premises.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Use alcohol-resistant foam, carbon dioxide or dry powder to extinguish.

Unsuitable extinguishing media Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards	Vapours are heavier than air and may spread near ground and travel a considerable distance to a source of ignition and flash back. Forms explosive mixtures with air.
Hazardous combustion products	Thermal decomposition or combustion products may include the following substances: Toxic gases or vapours.

5.3. Advice for firefighters

Brake and Clutch Cleaner

Special protective equipment for firefighters Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Do not attempt to take action without suitable protective clothing - see section 8 of SDS. Turn leaking containers leak-side up to prevent the escape of liquid. Take precautionary measures against static discharge.

For non-emergency personnel Follow instructions given by emergency personnel.

For emergency responders Refer to this MSDS.

6.2. Environmental precautions

Environmental precautions Do not discharge into drains or watercourses or onto the ground. Contain the spillage using bunding. Avoid release to the environment. Alert the neighbourhood to the presence of fumes or gas.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method. Use only non-sparking tools.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Avoid the formation of mists. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical/ventilating/lighting. Do not breathe mist/vapours/spray. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep container tightly closed. Use only non-sparking tools. Do not eat, drink or smoke when using this product.

Advice on general occupational hygiene Take off contaminated clothing and wash it before re-use.

7.2. Conditions for safe storage, including any incompatibilities

Storage Store in tightly-closed, original container in a dry, cool and well-ventilated place.

precautions Flammable liquid storage.

Storage class

7.3. Specific end use(s) The identified uses for this product are detailed in Section 1.2.

Specific end use(s)

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

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Long-term exposure limit (8-hour TWA): WEL 400 ppm 999 mg/m³

Short-term exposure limit (15-minute): WEL 500 ppm 1250 mg/m³

WEL = Workplace Exposure Limit

DNEL No data available.

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PNEC No data available.

8.2. Exposure controls

Protective equipment

Appropriate engineering controls Ensure there is sufficient ventilation of the area. Use explosion-proof electrical/ventilating/lighting. Take precautionary measures against static discharge.

Eye/face protection Tightly fitting safety goggles. Ensure eye bath is to hand.

Hand protection Wear protective gloves.

Other skin and body protection Wear protective clothing. Take precautionary measures against static discharge.

Respiratory protection Self-contained breathing apparatus must be available in case of emergency.

Environmental exposure controls Prevent from entering in public sewers or the immediate environment.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance Colourless liquid.

Odour Unpleasant.

Odour threshold Data lacking.

pH Data lacking.

Melting point Data lacking.

Initial boiling point and range 71 - 95°C

Flash point < 21°C

Evaporation rate Data lacking.

Evaporation factor Data lacking.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits Data lacking.

Other flammability Data lacking.

Vapour pressure Data lacking.

Vapour density Data lacking.

Relative density Data lacking.

Bulk density Data lacking.

Solubility(ies) Data lacking.

Partition coefficient Data lacking.

Auto-ignition temperature Data lacking.

Decomposition Temperature Data lacking.

Viscosity Data lacking.

Explosive properties Data lacking.

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Explosive under the influence of a flame	Not considered to be explosive.
Oxidising properties	There are no chemical groups present in the product that are associated with oxidising properties.
9.2. Other information	
Other information	None.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity Stable under recommended transport or storage conditions.

10.2. Chemical stability

Stability Stable at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Under normal conditions of storage and use, no hazardous reactions will occur. Decomposition may occur on exposure to conditions or materials listed below.

10.4. Conditions to avoid

Conditions to avoid Keep away from heat, sparks and open flame.

10.5. Incompatible materials

Materials to avoid Strong oxidising agents.

10.6. Hazardous decomposition products

Hazardous decomposition products In combustion emits toxic fumes. Carbon dioxide (CO₂). Carbon monoxide (CO).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Skin corrosion/irritation

Skin corrosion/irritation Skin irritation.

Animal data Data lacking.

Human skin model test Data lacking.

Extreme pH Data lacking.

Serious eye damage/irritation

Serious eye damage/irritation Not applicable.

Respiratory sensitisation

Respiratory sensitisation Not applicable.

Skin sensitisation

Skin sensitisation Not applicable.

Germ cell mutagenicity

Genotoxicity - in vitro Not applicable.

Genotoxicity - in vivo Not applicable.

Carcinogenicity

Brake and Clutch Cleaner

Carcinogenicity	There is no evidence that the product can cause cancer.
Target organ for carcinogenicity	Not relevant.
IARC carcinogenicity	Not listed.
NTP carcinogenicity	Not listed.
Reproductive toxicity	
Reproductive toxicity - fertility	Does not contain any substances known to be toxic to reproduction.
Reproductive toxicity - development	Does not contain any substances known to be toxic to reproduction.
Specific target organ toxicity - single exposure	
STOT - single exposure	Not classified as a specific target organ toxicant after a single exposure.
Target organs	Not relevant.
Specific target organ toxicity - repeated exposure	
STOT - repeated exposure	Not classified as a specific target organ toxicant after repeated exposure.
Target organs	Not relevant.
Aspiration hazard	
Aspiration hazard	Aspiration hazard if swallowed.
Inhalation	There may be irritation of the throat with a feeling of tightness in the chest. May cause an asthma-like shortness of breath.
Ingestion	Overexposure may cause the following adverse effects: Unconsciousness. Nausea, vomiting.
Skin contact	There may be irritation or redness at the site of contact. An itchy rash may occur at the site of contact.
Eye contact	There may be pain and redness.
Toxicological information on ingredients.	

PROPAN-2-OL

Other health effects	Consolidated carcinogen list.
Inhalation	Vapours in high concentrations are anaesthetic. Symptoms following overexposure may include the following: Headache. Fatigue. Dizziness. Central nervous system depression.
Ingestion	Swallowing concentrated chemical may cause severe internal injury.
Skin contact	Contains components which may penetrate the skin. Prolonged contact may cause redness, irritation and dry skin.
Eye contact	Irritation of eyes and mucous membranes.

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Acute and chronic health hazards	Exposure; This chemical has good warning properties. Gas or vapour is harmful on prolonged exposure or in high concentrations. Symptoms following overexposure may include the following: Irritation of eyes and mucous membranes. Toxic through skin absorption (percutaneous). Narcotic effect. A single exposure may cause the following adverse effects: Central nervous system depression. May cause chemical eye burns. Swallowing concentrated chemical may cause severe internal injury. Unconsciousness. Death.
Route of entry	Inhalation Ingestion. Skin and/or eye contact
Target organs	Central nervous system Eyes Respiratory system, lungs Skin
Medical symptoms	Irritation of eyes and mucous membranes. Dilated pupils. Rhinitis (inflammation of the nasal mucous membranes). Upper respiratory irritation. General respiratory distress, unproductive cough. May cause suffocation. Skin irritation. Nausea, vomiting. Unconsciousness, possibly death. Central nervous system depression. Drowsiness, dizziness, disorientation, vertigo. Behavioural changes. Hypotension (low blood pressure). Dizziness.
Medical considerations	Convulsions. Central nervous system depression.

SECTION 12: Ecological Information

12.1.

Toxicity

Toxicity No data available.

Ecological information on ingredients.

PROPAN-2-OL

Toxicity LOW

Acute toxicity - fish LC₅₀, 96 hours: >100 mg/l, Algae

12.2. Persistence and degradability

Persistence and degradability

No data available.

Ecological information on ingredients.

PROPAN-2-OL

Persistence and degradability

SIGNIFICANT COMPARTMENTS LIKELY TO BE:~ WATER RAPID. AIR RAPID PHOTO OXIDATION

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient

Data lacking.

Ecological information on ingredients.

PROPAN-2-OL

Bioaccumulative potential LOW ON THE BASIS OF LOG KOW

12.4. Mobility in soil

Mobility Highly volatile.

12.5. Results of PBT and vPvB assessment

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Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects

Other adverse effects Dangerous for the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information Avoid release to the environment.

Disposal methods Transfer to a suitable container and arrange for collection by specialised disposal company. NB the user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

SECTION 14: Transport information

14.1. UN number

UN No. (ADR/RID) 1993

UN No. (IMDG) 1993

UN No. (ICAO) 1993

UN No. (ADN) 1993

14.2. UN proper shipping name

Proper shipping name (ADR/RID) FLAMMABLE LIQUID, N.O.S.

Proper shipping name (IMDG) FLAMMABLE LIQUID, N.O.S.

Proper shipping name (ICAO) FLAMMABLE LIQUID, N.O.S.

Proper shipping name (ADN) FLAMMABLE LIQUID, N.O.S.

14.3. Transport hazard class(es)

ADR/RID class 3

ADR/RID classification code F1

ADR/RID label 3

IMDG class 3

ICAO class/division 3

ADN class 3

Transport labels



14.4. Packing group

ADR/RID packing group II

IMDG packing group II

ADN packing group II

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ICAO packing group II

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant



14.6. Special precautions for user

EmS F-E, S-E

ADR transport category 2

Emergency Action Code +3YE

Hazard Identification Number 33
(ADR/RID)

Tunnel restriction code (D/E)

Transport in bulk according to Annex II of MARPOL and the IBC

14.7. Code

SECTION 15: Regulatory information

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

National regulations Not applicable

15.2. Chemical safety assessment

A REACH chemical safety assessment has been carried out on the REACH registered products showing in section 3 of SDS

SECTION 16: Other information

Abbreviations and acronyms ATE: Acute Toxicity Estimate.

used in the safety data sheet DNEL: Derived No Effect Level.

PNEC: Predicted No Effect Concentration.

CLP: Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]

EUH statement: CLP-specific Hazard statement

General information This safety data sheet is prepared in accordance with Commission Regulation (EU) No 2015/830.

Revision comments GHS update

Issued by Nicola Dobson, R+D Supervisor

Revision date 23/08/2017

Revision 10

Supersedes date 23/06/2017

SDS number 20876

SDS status Approved.

Brake and Clutch Cleaner

Hazard statements in full	H225 Highly flammable liquid and vapour. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness. H340 May cause genetic defects. H350 May cause cancer. H411 Toxic to aquatic life with long lasting effects.
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The above information is believed to be correct but does not purport to be all inclusive and shall be used as a guide.
This company shall not be held liable for any damage resulting from handling or from contact with the above product.