

1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

1.1 Product Identifier

Material name : Soot & Carbon Cleaner

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

Product use : Cleaning agent

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: Central Solutions (GB) Ltd
Askern Industrial Estate
Moss Road
Askern
Doncaster
DN6 0DD

Tel: +44 (0)1302 708895

Fax: +44 (0)1302 708895

1.4 Emergency tel. no.: +44 (0)1302 708895 (Office hours)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

According to 1272/2008/EC: Classification, Labelling and Packaging of Substances and Mixtures (CLP) Regulation:

Extremely Flammable Aerosol Category 1
Skin Corrosion Category 1B

2.2 Label elements

Labelling according to EC Directives: 1272/2008/EC:

Signal word: Danger



Pictogram(s):

Contains: Monoethanolamine

H-Statements: H222 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.
H314 Causes severe skin burns and eye damage.

P-Statements: P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
No smoking.
P211 Do not spray on an open flame or other ignition source.
P251 Do not pierce or burn, even after use.

2.2 Label elements (continued)

P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50°C.
P260	Do not breathe vapour/spray.
P280	Wear protective gloves/eye/face protection.
P303+P361+353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
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.

2.3 Other hazards In use, may form flammable / explosive vapour-air mixture.

3. COMPOSITION/INFORMATION ON INGREDIENTS**3.2 Mixtures:****Hazardous components**

Chemical Name	CAS No./ EC No./ Reg. No	Classification (1272/2008/EC)	Content
MONOETHANOLAMINE	141-43-5 205-483-3 -	Acute Tox.4; H302+H312+H332 Sk.Corr.1B; H314 STOT SE3; H335 (C ≥ 5%)	1-5%
TRIETHANOLAMINE	102-71-6 203-049-8 -	Eye Irrit.2; H319	1-5%
2-BUTOXYETHANOL	111-76-2 203-905-0 01-2119475108-36- xxxx	Acute Tox.4; H302+H312+H332 Sk.Irrit.2; H315 Eye Irrit 2; H319	1-5%
LIQUEFIED PETROLEUM GAS (contains <0.1% 1,3-butadiene)	68476-85-7 270-704-2 -	Flam.Gas 1; H220 Gas under pressure; H280	10-30%

See Section 16 for the full text of the H-statements noted above.

4. FIRST AID MEASURES**4.1 Description of first aid measures**

General advice: Remove casualty from exposure ensuring one's own safety whilst doing so. Take off any contaminated clothing and shoes/boots immediately. Never give anything by mouth to an unconscious person.

Skin contact: Wash with soap and water. Seek medical advice if irritation develops.

Eye contact: Rinse with water for 10 minutes and seek medical advice if irritation persists.

Ingestion: Rinse mouth with water and give water to drink. Do not induce vomiting. Seek medical advice.

Inhalation: Remove to fresh air. Seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed: May cause irritation to skin and eyes with prolonged contact.

4.3 Indication of any immediate medical attention and special treatment needed: See skin and eye contact information above.

5. FIRE-FIGHTING MEASURES**5.1 Extinguishing media**

Suitable extinguishing media: Carbon dioxide; dry chemical powder; alcohol or polymer foam.

Unsuitable extinguishing media: High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting: Irritating/toxic fumes may be released at elevated temperatures.

5.3 Advice for fire-fighters:

Special protective equipment: Wear self-contained breathing apparatus. Use personal protective equipment.

Further information: Standard procedure for chemical fires. Use water spray to cool containers.

Do not allow fire run-off to enter drains.

6. ACCIDENTAL RELEASE MEASURES**6.1 Personal precautions, protective equipment and emergency procedures**

Evacuate personnel to safe areas. Mark out the contaminated area with signs and prevent access to unauthorised personnel.

Use personal protective equipment to deal with spillage.

6.2 Environmental precautions

Contain the spillage using sufficient appropriate absorbent material. Do not discharge into drains or rivers, but if contamination to waterways has occurred, inform local authorities.

6.3 Methods and materials for containment and cleaning up

Wipe up liquid spillage with absorbent material such as sand, earth, or vermiculite, and place in a labelled container for disposal in accordance with local/national regulations.

6.4 References to other sections: See sections 8 and 13 for personal protection and disposal information.

7. HANDLING AND STORAGE**7.1 Precautions for safe handling**

Do not breathe spray mist. Avoid contact with skin and eyes. Handle with care.

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, well ventilated area, below 50°C. Protect from frost, heat and sunlight. Keep away from food, drink and animal feed.

7.3 Specific end use(s): No information available.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**8.1 Control parameters**

Chemical name	8hr TWA	15min STEL	Reference
2-Butoxyethanol	123 mg/m ³ (25 ppm)	246 mg/m ³ (50 ppm)	Sk, BMGV
Liquefied petroleum gas	1750 mg/m ³ /1000ppm	2810 mg/m ³ /1250 ppm	EH40/2005

8.2 Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area.

Personal protective equipment

Respiratory protection: Unlikely to be necessary in normal circumstances.

Hand protection: Wear chemically resistant gloves such as butyl rubber approved to standard EN 374; material thickness 0.5mm; break through time \geq 480 min. Gloves must be replaced after 8 hours of wear. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Check with glove manufacturer for specific advice. (Sk) noted above means can be absorbed through skin.

Eye protection: Chemical splash goggles if eye contact is reasonably probable. The selected goggles or glasses must satisfy the European standard EN 166.

Skin and body protection: General workwear.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practices. Do not eat or drink whilst using the product. Wash hands before breaks and at the end of the work day. Wash contaminated clothing before re-use.

Environmental exposure controls: Do not discharge into drains or rivers.

9. PHYSICAL AND CHEMICAL PROPERTIES**9.1 Information on basic physical and chemical properties**

State and colour	Aerosol emitting colourless spray.
Odour	Characteristic
Odour Threshold	No data available
Flammability	Extremely flammable
Flash point	<0°C
Lower explosion limit	0.8%
Upper explosion limit	10.6%
Explosive properties	Not explosive
Thermal decomposition	No data available
Auto-ignition temperature	>230°C
Oxidising properties	Non-oxidising
Solubility in water	Soluble
Solubility in other solvents	Alcohols.
pH	12.0
Melting point/range	No data available
Boiling point/range	No data available
Relative density	No data available
Vapour pressure	No data available
Vapour density	No data available
Partition coefficient: n-octanol/water	No data available
Viscosity (kinematic)	No data available
Evaporation rate	No data available

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9.2 Other information None

10. STABILITY AND REACTIVITY

10.1 Reactivity Generally non-reactive.
 10.2 Chemical stability Stable under normal conditions.
 10.3 Possibility of hazardous reactions None if stored and used as directed.
 10.4 Conditions to avoid None known.
 10.5 Incompatible materials Acids. Oxidising agents.
 10.6 Hazardous decomposition products Oxides of carbon.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects Acute toxicity

Chemical name	Oral (LD50)	Inhalation (LC50)	Dermal (LD50)
2-Butoxyethanol	300-2000 mg/kg (Rat)	No data available	1000-2000 mg/kg (Rat)
Liquefied petroleum gas	Not applicable	>20mg/l (Rat) 4h	Not applicable

Skin corrosion/irritation: May cause skin burns or irritation with prolonged exposure.
Serious eye damage/eye irritation: May cause eye damage or irritation.
Respiratory or skin sensitisation: Not expected to be a sensitiser.
Repeated dose toxicity: Repeated skin contact can cause defatting leading to dermatitis.
Carcinogenicity: Not expected to be carcinogenic.
Mutagenicity: Not expected to be mutagenic.
Toxicity for reproduction: Not expected to be a hazard.
Specific target organ toxicity (STOT): No data available.

Further information

The product as a whole may cause irritation of skin, eyes, nose and upper respiratory tract if exposed to high levels of spray mist.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Chemical name	Species	Test	Value
2-Butoxyethanol	Daphnia	EC50 24h	>100 mg/l
	Fish	LC50 96h	>100 mg/l
	Algae	EC50 7d	>100 mg/l

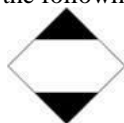
12.2 Persistence and degradability Expected to be readily biodegradable.
 12.3 Bioaccumulative potential Low bioaccumulation potential.
 12.4 Mobility in soil Soluble in water.
 12.5 Results of PBT and vPvB assessment Contains no PBT or vPvB substances.
 12.6 Other adverse effects None expected.

13. DISPOSAL CONSIDERATIONS**13.1 Waste treatment methods**


Disposal operations: Dispose of in accordance with local and national regulations.
Contact licensed waste disposal company. Most aerosols can be recycled. Do not pierce or burn or use a cutting torch on the empty aerosol container.

14. TRANSPORT INFORMATION

General Information: The UN number for all aerosols is 1950. Aerosols packed in fibreboard cartons up to 30 kg gross weight, or shrink/stretch wrapped onto trays up to 20 kg gross weight may be transported as Limited Quantities, and should display the following symbol on the pack:



The following information relates to all other aerosols not transported as Limited Quantities:

14.1 UN number	ADR/RID/ADN; IMDG; ICAO	1950
14.2 UN proper shipping name	AEROSOLS	
14.3 Transport hazard class(es)	ADR/RID/ADN Class	2, 5F
	ADR/RID/ADN Class	Class 2, Gases
	ADR Label No.	2.1
	IMDG Class	2
	ICAO Class/Division	2
	ICAO Subsidiary risk	2.1
	Transport labels	
14.4 Packing Group	ADR/RID/ADN; IMDG; ICAO	Not applicable for aerosols
14.5 Environment hazards	Marine Pollutant	Not applicable for aerosols.
14.6 Special precautions for user	EMS	F-D, S-U
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code		Not applicable for aerosols.

15. REGULATORY INFORMATION**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****UK Regulatory References**

The Control of Substances Hazardous to Health Regulations 2002 (S.I 2001 No.2677) with amendments.

EU Directives

Regulations (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 with amendments.

Statutory Instruments

The Chemicals (Hazard information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).

Guidance Notes

Health and Safety Executive Workplace Exposure Limits EH40.

15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been performed on this product.

16. OTHER INFORMATION

This safety data sheet is prepared in accordance with Commission Regulation (EU) No.453/2010.

Full text of H-statements referred to under sections 2 and 3

H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
H280	Contains gas under pressure; may explode if heated.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation

Abbreviations and acronyms

CAS: Chemical Abstract Service (division of the American Chemical Society). {Section 3}. STOT: Single Target Organ Toxicity (Section 2; 11).

SE: Single exposure (Section 2)

TWA: Time-weighted average. (Section 8).

STEL: Short-term exposure limit. (Section 8).

PBT: Persistent, Bioaccumulative, Toxic. (Section 12).

vPvB: very Persistent and very Bioaccumulative. (Section 12).

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

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