

ORIGINATED : 07/04/2016

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

Product Name : Carbon Sweeper
Product Code : CS 179
Use/Description of Product : EGR, Turbo and Injector cleaner for automotive Use.
 Blend of Solvents to Safely Remove Coked on Deposits.

Company Name : Rotec Industries
 17 Craig Ddu Estate
 Amlwch
 Anglesey
 Gwynedd
 LL68 9EH

Telephone : 01948 780111
Email : healthandsafety@rotecindustries.com
Emergency Telephone No : 01948 780111 / 07768 271691

2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients :					
Substance Name	EINECS No.	CAS No.	% Conc Range	Hazard Symbols	Risk Phrases
Ethanol	200-659-6	67-56-1	01 - 10	F,T	11,23/24/25/39.
PROPANE	200-827-9	74-98-6	10 - 30	F+	12
Isobutane	200-857-2	75-28-5	01 - 10	F+	12
BUTANE	203-448-7	106-97-8	01 - 10	F+,	12

3. HAZARD IDENTIFICATION

Classifications : Highly Flammable.

Risk Phrases : Harmful by inhalation, in contact with skin and if swallowed.
 Irritating to skin. Harmful : danger of serious damage by prolonged exposure through inhalation.
 Possible risk of harm to the unborn child. Harmful : possible risk of irreversible effects through inhalation, in contact with skin and if swallowed.

Main Hazard Overview :
 Avoid haphazard use of product, where contact with eyes and skin will follow. Pressurised container. Protect from sunlight and do not expose to temperatures exceeding 50 deg C. do not pierce or burn even after use. Do not spray on a naked flame or any incandescent material. Deliberately concentrating and inhaling the contents of this container is dangerous and can be fatal.

4. FIRST AID MEASURES (SYMPTOMS) part 1

Skin Contact : Harmful in contact with skin, This may cause mild irritation at the site of contact.

Eye Contact : There may be irritation and/or redness.

Ingestion : Harmful to ingest There may be irritation of the throat. There may Be nausea stomach pain vomiting or irritation.

Inhalation : Harmful to inhale. There may be irritation of the throat with a tightness of the chest.

4. FIRST AID MEASURES (ACTIONS) part 2

General

In all cases of doubt or when symptoms persist seek medical attention. Never give anything by mouth to an unconscious person.

Skin Contact

Remove contaminated clothing. Wash skin thoroughly with soap and water or use a proprietary skin cleaner. Do NOT use solvents or thinners.

Eye Contact

Contact lenses should be removed. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart. Seek medical advice.

Ingestion

If accidentally swallowed obtain immediate medical attention. Keep at rest. Do not induce vomiting. Show medical personnel a copy of this SDS.

Inhalation

Harmful by inhalation. Remove casualty from exposure ensuring one's own safety whilst doing so. If unconscious, check for breathing and apply artificial respiration if necessary. If unconscious, and breathing is correct, place in the recovery position. If conscious, ensure the casualty sits or lies down. Seek medical advice.

5. FIRE-FIGHTING MEASURES

Extinguishing Media : Carbon Dioxide (CO2) Alcohol or polymer foam.
Dry chemical powder. Use water spray to cool containers.

Protection of Fire-fighters :
Fire will produce dense black smoke containing hazardous products of combustion (See section 10). Flash back can be possible over considerable distances. Vapours may form explosive mixture with Air. Decomposition products may be a hazard to health. Appropriate self contained breathing apparatus may be required. Cool closed containers exposed to fire with a water spray. Do NOT allow run off from fire fighting to enter drains or water courses.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions : Main issue is to ensure adequate ventilation.
Refer to section 8 of SDS for personal protection details.

Environmental Precautions : Do not allow large quantities to enter drains or water
Courses. If this happens contact Local Water Company or
In the case of rivers, the Local Rivers Authority.

Clean-up Procedures : Contain and collect spillage with non combustible absorbent
materials., e.g., sand or earth and place in suitable
Container for disposal in accordance with waste regulations
Light remnants may be flushed from surface with water, but
Note above warning about water sources and rivers

7. HANDLING AND STORAGE

Handling requirements

Do not use in areas where potential sources of ignition exist. Electrical equipment should be protected to the appropriate standard. Use non-sparking tools and exclude sources of heat, sparks and flames. Avoid skin and eye contact. For personal protection see section 8 of the SDS. Good housekeeping and regular removal of waste materials will minimise risk.

Storage Conditions

Store in accordance with the conditions of the licence which is necessary under the Petroleum (Consolidation) Act. See the HSE guidance note; storage of flammable liquids in containers. Observe the label precautions. Store between 5 and 30 deg c in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. NO smoking. The principles contained in the HSE's guidance note; storage of packaged dangerous substances should be observed when storing this product.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients :

Substance Name	Occupational Exposure Limit				Notation
	15 min WEL		8 hr WEL		
	ppm	Mg/m3	ppm	Mg/m3	
ETHANOL		333.00		266.00	
PROPANE		7200.00		1800.00	
ISOBUTANE		9600.00		2400.00	
BUTANE	750.00	1810.00	600.00	1450.00	OES

Engineering Measures

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If extraction methods are insufficient to maintain concentrations of particulates and/or solvent vapours below relevant OEL's, suitable respiratory protective equipment should be worn.

Respiratory Protection

Wear suitable respiratory equipment.

Hand Protection

Protective gloves.

Eye protection

Eye protection designed to protect against liquid splashes should be worn.

Skin Protection

Remove contaminated clothing unless stuck to the skin. Wash copiously with plenty of water.

Notes

Notations = Sk = risk of absorption through skin Sen – respiratory sensitizer Bmgv – Biological Monitoring may be appropriate (see Biological Monitoring Guidance Value in EH40 Table 3)

OES = Occupational Exposure Standard MEL = Maximum Exposure Limit

OEL's from EH40 (Revised annually) except where marked SUP which are assigned by the supplier of the substance.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	:	Opaque Foaming Solvent liquid held in aerosol container
Colour	:	Opaque Fluid
Odour	:	Light Brakish odour
Evaporation Rate	:	No data available
Solubility in Water	:	Insoluble
Flash Point C	:	11 deg C
Specific Gravity	:	No Data

10. STABILITY AND REACTIVITY

Stability

Stable under normal handling conditions (see section 7). Avoid naked flames heat and sparks. In a fire, hazardous decomposition products such as smoke, carbon monoxide, carbon dioxide and oxides of nitrogen may be produced. Keep away from oxidising agents and strongly alkaline and acid materials to prevent the possibility of an exothermic reaction.

11. TOXICOLOGICAL INFORMATION

Ethanol: IVN Rat LD50 2131 mg/kg ORL Mus LD50 7300 mg/kg ORL Rat LD50 5628 mg/kg

12. ECOLOGICAL INFORMATION

Aquatic Toxicity Effects	:	Negligible ecotoxicity
Organic Toxicity Effects	:	Readily absorbed into soil
Persistence/Mobility	:	Biodegradable
Bioaccumulation	:	No Bioaccumulation potential
Further information	:	

The air pollution control requirements of regulations made under the Environmental Protection Act may apply to the use of this product.

13. DISPOSAL INFORMATION

NB:

The users attention is drawn to the possible existence of regional or national regulation regarding disposal, Consult local Regulations.

14. TRANSPORT INFORMATION

Road/Rail	:UN No.....1950 Designation.....AEROSOLS	Packing Group....5F	Class.....2
Sea	:Packing Grp. <= 30 lts.....N/A Marine Pollutant..... EMS.....F-D-S-U Main Risk..... Shipping Name.....AEROSOLS	Packing Grp. > 30 lts.....N/A UN No.....1950 MFAG.....	Class.....2
Air	:Packing grp. <= 30 lts.....N/A UN Number.....1950	Packing Grp. > 30 lts.....N/A	Class.....2
International Road/Rail	:Item Number..... Main Risk..... Shipping Name.....AEROSOLS	UN Number.....1950	Class..... 2 Sub Risk

15. REGULATORY INFORMATION

The product is classified and labelled in accordance with directive 1999/45/EC. The product is classified in accordance with Annex VI to Directive 67/548/EEC.



Classifications : Flammable Irritant

Contains : Ethanolamines

P Phrases : Pressurised container, may burst if heated.
Protect from sunlight. Do not expose to temperatures exceeding 50 C,
Do not pierce or burn, even after use. Keep away from heat, hot surfaces,
Sparks, open flames and other ignition sources. No Smoking.
In use may form flammable/explosive vapour-air mixture.
Use only as described. (BAMA)
Lubricant. 1950

Risk/Safety Phrases: Extremely flammable aerosol. Cause skin irritation.
May cause drowsiness or dizziness.
Toxic to aquatic life with long term effects.
Avoid breathing vapour/spray. Wear protective gloves.
Use only outdoors or in a ventilated area.
IF ON SKIN: Wash with soap and water.
IF INHALED: Remove victim to fresh air and keep at rest in a position
Comfortable for breathing. If exposed or concerned get medical advice or
attention. Avoid release to the environment.

Note : the regulatory information given above only indicates the principal regulations Specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16. ADDITIONAL INFORMATION

Risk Phrases Listed in Section 2

R10	Flammable
R48/20	Harmful danger of serious damage to health by prolonged exposure by inhalation
R20/21	Harmful by inhalation and in contact with skin
R36	Irritating to eyes
R23/24/25	Toxic by inhalation, in contact with skin and if swallowed
R38	Irritating to skin.
R39/23/24/25	Toxic danger of very serious irreversible effects through inhalation Contact with skin and if swallowed.
R 65	Harmful may cause lung damage if swallowed.
R 67	Vapours may cause drowsiness and dizziness
R 66	Repeated exposure may cause skin dryness or cracking.