

ORIGINATED : 11/07/1996

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

**Product Name** : Troubleshooter  
**Product Code** : TS 105  
**Use/Description of Product** : Carburettor and Air intake cleaner for automotive Use.  
 Blend of Solvents to Safely Remove Coked on Deposits.  
 Excellent for use on EGR Valves.

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### 2. COMPOSITION/INFORMATION ON INGREDIENTS

| Ingredients :       |            |           |              |                |                 |
|---------------------|------------|-----------|--------------|----------------|-----------------|
| Substance Name      | EINECS No. | CAS No.   | % Conc Range | Hazard Symbols | Risk Phrases    |
| XYLENE              | 215-535-7  | 1330-20-7 | 10 - 30      | Xn,-           | 10,20/21,38     |
| Ethyl Methyl Ketone | 201-159-0  | 78-93-3   | 01 - 10      | F,Xi,-         | 11,36,66,67.    |
| Methanol            | 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

|                     |   |   |
|---------------------|---|---|
| <b>Skin Contact</b> | : | Harmful in contact with skin, This may cause mild irritation at the site of contact.                              |
| <b>Eye Contact</b>  | : | There may be irritation and/or redness.   |
| <b>Ingestion</b>    | : | Harmful to ingest There may be irritation of the throat. There may Be nausea stomach pain vomiting or irritation. |
| <b>Inhalation</b>   | : | 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

|                                  |   |  |
|----------------------------------|---|--|
| <b>Personal Precautions</b>      | : | Main issue is to ensure adequate ventilation.<br>Refer to section 8 of SDS for personal protection details.  |
| <b>Environmental Precautions</b> | : | 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.  |
| <b>Clean-up Procedures</b>       | : | 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<br>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   |          |
| TOLUENE             |                             | 574.00  |          | 191.00  | OES      |
| XYLENE              | 100.00                      | 441.00  | 50.00    | 220.00  | Sk OES   |
| ETHYL METHYL KETONE |                             | 899.00  |          | 600.00  |          |
| METHANOL            |                             | 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      | : | Clear Solvent liquid held in aerosol container |
| Colour              | : | Clear Fluid                                    |
| Odour               | : | pronounced Solvent 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

|           |                         |                         |                         |
|-----------|-------------------------|-------------------------|-------------------------|
| Toluene:  | IVN Rat LD50 1960 mg/kg | ORL Mus LD50 2 gm/kg    | ORL Rat LD50 6900 mg/kg |
| Xylene:   | ORL Mus LD50 2119 mg/kg | ORL Rat LD50 4300 mg/kg | Scu Rat LD50 1700 mg/kg |
| Methanol: | 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

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

**Contains** : XYLENE

**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

R 11 Highly Flammable  
R12 Extremely 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.