



**SAFETY DATA SHEET
PERMA-SEEL AEROSOL**

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

PRODUCT NAME PERMA-SEEL AEROSOL
 PRODUCT NO. 525295
 SUPPLIER Dodge Company Ltd,
 Units 11/15 Ardglen Industrial Estate,
 Whitchurch, Hampshire,
 RG28 7BB, United Kingdom
 44 (0)1256-893883
 44 (0)1256-893868

2 COMPOSITION/INFORMATION ON INGREDIENTS

| Name | EC No. | CAS-No. | Content | Classification |
|------------------------------------|-----------|----------|---------|---|
| 1-Chloro-4-Trifluoromethyl Benzene | | 98-56-6 | 10-30% | Xn;R20/21/22. R10. |
| ACETONE | 200-662-2 | 67-64-1 | 10-30% | F;R11 Xi;R36 R66 R67 |
| BUTANE | 203-448-7 | 106-97-8 | 5-10% | F+;R12 |
| TOLUENE | 203-625-9 | 108-88-3 | 10-30% | F;R11 Repr. Cat. 3;R63 Xn;R48/20,R65 Xi;R38 R67 |

The Full Text for all R-Phrases are Displayed in Section 16

3 HAZARDS IDENTIFICATION

Harmful by inhalation, in contact with skin and if swallowed. Harmful: danger of serious damage to health by prolonged exposure through inhalation. Possible risk of harm to the unborn child.
 CLASSIFICATION Xn;R20/21/22, R48/20. Rep 3;R63.

4 FIRST-AID MEASURES

INHALATION
 Move the exposed person to fresh air at once. Get medical attention if any discomfort continues. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Keep the affected person warm and at rest. Get prompt medical attention.

INGESTION
 Not relevant.

SKIN CONTACT
 Wash the skin immediately with soap and water. Get medical attention if any discomfort continues.

EYE CONTACT
 Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA
 Use: Alcohol resistant foam. Foam. Powder. Dry chemicals, sand, dolomite etc. Water spray, fog or mist.

SPECIAL FIRE FIGHTING PROCEDURES
 Containers close to fire should be removed or cooled with water. Ventilate closed spaces before entering them. Use water to keep fire exposed containers cool and disperse vapours.

UNUSUAL FIRE & EXPLOSION HAZARDS
 Aerosol cans may explode in a fire. Vapours may ignite.

SPECIFIC HAZARDS
 Carbon monoxide (CO). Carbon dioxide (CO2). Chlorides. Fluorides.

PERMA-SEEL AEROSOL

6 ACCIDENTAL RELEASE MEASURES

SPILL CLEAN UP METHODS

Wear necessary protective equipment. Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Let evaporate. Keep out of confined spaces because of explosion risk.

7 HANDLING AND STORAGE

USAGE PRECAUTIONS

Keep away from heat, sparks and open flame. Avoid spilling, skin and eye contact. During application and drying, solvent vapours will be emitted. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level. Static electricity and formation of sparks must be prevented. Use explosion proof electric equipment.

STORAGE PRECAUTIONS

Aerosol cans: Must not be exposed to direct sunlight or temperatures above 50°C. May attack some plastics, rubber and coatings.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

| Name | Std | LT - ppm | LT - mg/m3 | ST - ppm | ST - mg/m3 |
|---------|-----|------------|---------------|-------------|---------------|
| ACETONE | WEL | 500 ppm | 1210 mg/m3 | 1500 ppm | 3620 mg/m3 |
| BUTANE | OES | 600 ppm | 1450 mg/m3 | 750 ppm | 1810 mg/m3 |
| TOLUENE | WEL | 50 ppm(Sk) | 191 mg/m3(Sk) | 150 ppm(Sk) | 574 mg/m3(Sk) |

INGREDIENT COMMENTS

WEL = Workplace Exposure Limits

PROTECTIVE EQUIPMENT



ENGINEERING MEASURES

Explosion-proof general and local exhaust ventilation.

RESPIRATORY EQUIPMENT

If ventilation is insufficient, suitable respiratory protection must be provided.

HAND PROTECTION

Use protective gloves.

EYE PROTECTION

Wear approved safety goggles.

OTHER PROTECTION

Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.

HYGIENE MEASURES

DO NOT SMOKE IN WORK AREA! Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.

9 PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|-------------------------------|------------------------|-------------------------------|------------|
| APPEARANCE | Aerosol Liquid Viscous | | |
| COLOUR | Clear Colourless | | |
| ODOUR | Aromatic. Hydrocarbon | | |
| SOLUBILITY | Insoluble in water | | |
| BOILING POINT (°C) | 27 - 32 | RELATIVE DENSITY | 1.034 |
| VAPOUR DENSITY (air=1) | > 1 | EVAPORATION RATE | > 1 BuAc=1 |
| FLASH POINT (°C) | < 23 CC (Closed cup). | FLAMMABILITY LIMIT - LOWER(%) | 1 |
| FLAMMABILITY LIMIT - UPPER(%) | 11 | | |

10 STABILITY AND REACTIVITY

STABILITY

Stable under normal temperature conditions.

PERMA-SEEL AEROSOL**CONDITIONS TO AVOID**

Avoid heat, flames and other sources of ignition. Avoid contact with: Strong oxidising agents. Strong mineral acids.

HAZARDOUS DECOMPOSITION PRODUCTS

Carbon monoxide (CO). Carbon dioxide (CO₂). Chlorides. Fluorides.

11 TOXICOLOGICAL INFORMATION**INHALATION**

Harmful by inhalation. Vapours may cause headache, fatigue, dizziness and nausea.

INGESTION

May cause discomfort if swallowed. May cause stomach pain or vomiting. Drowsiness, dizziness, disorientation, vertigo. Central nervous system depression. Narcotic effect.

SKIN CONTACT

Irritating to skin. Acts as a defatting agent on skin. May cause cracking of skin, and eczema.

EYE CONTACT

Irritating to eyes. Spray and vapour in the eyes may cause irritation and smarting.

HEALTH WARNINGS

May cause irritation to the respiratory system. Prolonged inhalation of high concentrations may damage respiratory system.

ROUTE OF ENTRY

Inhalation. Skin and/or eye contact.

12 ECOLOGICAL INFORMATION**ECOTOXICITY**

Not regarded as dangerous for the environment.

13 DISPOSAL CONSIDERATIONS**DISPOSAL METHODS**

Empty containers must not be burned because of explosion hazard. Dispose of waste and residues in accordance with local authority requirements.

14 TRANSPORT INFORMATION

| | | | |
|----------------------|----------------|------------------|----------------|
| UK ROAD CLASS | 2 | | |
| PROPER SHIPPING NAME | AEROSOLS | | |
| UN NO. ROAD | 1950 | UK ROAD PACK GR. | N/A |
| ADR CLASS NO. | 2 | ADR CLASS | Class 2: Gases |
| ADR PACK GROUP | N/A | ADR LABEL NO. | 2.1 |
| CEFIC TEC(R) NO. | 20G5F | RID CLASS NO. | 2 |
| RID PACK GROUP | N/A | UN NO. SEA | 1950 |
| IMDG CLASS | 2.1 | IMDG PAGE NO. | 2.1 |
| IMDG PACK GR. | Not Applicable | EMS | F-D, S-U |
| MFAG | See Guide | MARINE POLLUTANT | No. |
| UN NO. AIR | 1950 | AIR CLASS | 2.1 |
| AIR PACK GR. | N/A | | |

15 REGULATORY INFORMATION**LABELLING**

PERMA-SEEL AEROSOL



Harmful

CONTAINS

1-Chloro-4-Trifluoromethyl Benzene
TOLUENE

RISK PHRASES

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R63 Possible risk of harm to the unborn child.

SAFETY PHRASES

S51 Use only in well-ventilated areas.
S36/37 Wear suitable protective clothing and gloves.
S60 This material and its container must be disposed of as hazardous waste.

UK REGULATORY REFERENCES

Petroleum (Consolidation) Act, as amended 1984 SI 1244. Highly Flammable Liquid Regulations 1972.

ENVIRONMENTAL LISTING

Rivers (Prevention of Pollution) Act 1961. Control of Pollution (Special Waste Regulations) Act 1980.

EU DIRECTIVES

System of specific information relating to Dangerous Preparations. 2001/58/EC.

APPROVED CODE OF PRACTICE

Classification and Labelling of Substances and Preparations Dangerous for Supply.

GUIDANCE NOTES

Workplace Exposure Limits EH40. Introduction to Local Exhaust Ventilation HS(G)37. CHIP for everyone HSG(108).

16 OTHER INFORMATION

INFORMATION SOURCES

Dangerous Properties of Industrial Materials Report, N.Sax et.al.

REVISION DATE

May 2007

RISK PHRASES IN FULL

R10 Flammable.
R11 Highly flammable.
R12 Extremely flammable.
R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
R36 Irritating to eyes.
R38 Irritating to skin.
R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R63 Possible risk of harm to the unborn child.
R65 Harmful: may cause lung damage if swallowed.
R66 Repeated exposure may cause skin dryness or cracking.
R67 Vapours may cause drowsiness and dizziness.

DISCLAIMER

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.