



22 Harbor Avenue  
Norwalk, CT 06850  
Tel: (203) 853-9522  
Fax: (203) 853-9921  
E-mail: info@csunitec.com

Part Number: ZHS 400

**MATERIAL SAFETY DATA SHEET**  
according 91/155/EC

**1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY**

Date : November 29, 1999  
Productname : Cuttingoil spray  
Supplier :

Emergency phonenumber:

**2. COMPOSITION/INFORMATION ON INGREDIENTS**

Minaral oil and adjuvants.

<u>Components</u>	<u>Weight %</u>	<u>CAS-No.</u>	<u>Symbol</u>	<u>R-phrases</u>	<u>TLV-value</u>	
					<u>ppm</u>	<u>mg/m<sup>3</sup></u>
Propane	10-25	74-98-6	F+	12		
Butaan	10-25	106-97-8	F+	12	600	1430

**3. HAZARDS IDENTIFICATION**

Irritates the eyes and salvia glands, in liquid as in vapour form. Inhalation of high concentrations of propellant vapour has a slight narcotic effect. Propellantvapours can combine with air a flammable/explosive vapour/air mixture during use.

**4. FIRST AID MEASURES**

Inhalation: Place patient in fresh air and keep warm. Prevent exertion. If necessary use oxygen or artificial respiration. If unconcious, stabilize patient and obtain medical attention.  
Contact with eyes: Rinse immediately with plenty of water for at least 10 minutes. Obtain medical attention.  
Contact with skin: Take off contaminated clothing. Wash effective areas with water and soap.  
Oral ingestion: If ingested obtain medical attention immediately. Let patient rest, do not let patient vomit..

**5. FIRE CONTROL MEASURES**

Suitable extinguishing agents: CO2, powder, foam, waterhaze  
Do not use: Waterjet

Exposure to degradation products can form a danger to health. If necessary, use appropriate respiratory aids.  
Do not let extinguishing materials get into contact with sewage or watertable. If possible, remove rest stock from danger zone, otherwise keep cool with water. When heated the containers risk explosion.

**6. MEASURES ON ACCIDENTAL RELEASE OF THE SUBSTANCE**

Take personal protective measures. Do not breath vapours. Propellantvapours together with oxygen can form explosive mixtures. Remove possible fuselages and ventilate the room thoroughly. Do not let leaked workmaterials flow into sewage or watertable. Absorb with sorbents (i.e. sand, soil) and treat as chemical waste.



22 Harbor Avenue  
Norwalk, CT 06850  
Tel: (203) 853-9522  
Fax: (203) 853-9921  
E-mail: info@csunitec.com

## 7. HANDLING AND STORAGE

**Handling:** Propellant vapour together with oxygen can form explosive mixtures with. Evaporated material is heavier than air and can travel across the floor.  
Use only in well-ventilated area's.  
Do not spray on a naked flame or any incandescent material.  
Do not breath spray. Keep away from sources of ignition - No smoking.  
Keep out of the reach of children.  
Avoid contact with eyes and skin. Don't eat, drink or smoke during use. Wash hands before reating and when finished applying the product.

**Storage:** Comly with the priciples laid down in the BAMA gudance notes on the storage of aerosols.  
Keep in a dry, well-ventilated place.  
Protect against sun and do not expose to temperatures exceeding 50°C.  
Avoid contact with oxydents, acids and bases.

## 8. MEASURES TO CONTROL EXPOSURE/PERSONAL PROTECTION

**Technical measures:** Only use in well-ventilated places. By professional use, use sourceventilation.

### Personal protection

of respiratory canal : In case of insufficient ventilation, wear suitable respiratory equipment.  
of hands : Avoid contac with skin; otherwise wear rubber gloves.  
of eyes : Avoid contact with eyes, use safety glasses.  
of skin : Wear clothing which covers the skin sufficiently.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Form:** Aerosol  
Liquid (with gas produced under pressure)  
**Smell:** Characteristic smell  
**pH:** neutral  
**Flashpoint** Not applicabel. (as aerosol)  
**Vapour pressure (20°C)** 3,8 BAR  
**Vapour pressure (50°C)** <8 BAR  
**Relative density kg/l** 0.800  
**Solubility:**  
-water soluble wt% none  
**Explosion limits:**  
-lower limit in vol% 1,0  
-upper limit in vol% 13,1

## 10. STABILITY AND REACTIVITY

**Stability** : No decomposition when used as indicated.  
**Unrecommanded** : Do not expose container to temperatures exceeding 50°C.  
**Unrecommended substances** : Keep in a dry place. Avoid contact with oxidizing agents, acids and bases.  
**Hazardous decomposition products:** : Do not spray on a naked flame or any incandescent material.  
When burning CO<sub>2</sub> and CO and smoke can occur.



22 Harbor Avenue  
Norwalk, CT 06850  
Tel: (203) 853-9522  
Fax: (203) 853-9921  
E-mail: info@csunitec.com

### 11. TOXICOLOGICAL DATA

Inhalation of high concentrations of propellant vapour has a light narcotic effect, irritates the salivary glands and respiratory organs. Symptoms can vary from headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

### 12. ECOLOGICAL DATA

No experimental data exists regarding the product as such.

### 13. INSTRUCTIONS FOR REMOVAL

Empty packaging is not chemical waste.  
Treat incompletely used cans as chemical waste

### 14. INFORMATION CONCERNING TRANSPORT

#### Transport by land ADR/RID en GGVS/GGVE (cross-border/internal):

-ADR/GGVS/E class:	2 compressed, liquidized or pressurized gases.
-digit/letter	5 F
-UN no.	1950
-Description of the article	Aerosols

#### Transport by sea IMDG/GGVSea:

-IMDG/GGVSea-class:	2
-Page:	2102
-UN no:	1950
-EMS no:	2-13
-MFAG:	Subsection 4.2
-Marine pollutant:	No
- Proper technical name:	Aerosols

#### Transport by air ICAO-TI and IATA-DGR:

-ICAO/IATA-class:	2.1
-Proper shipping name	Aerosols
-UN/ID no:	1950





22 Harbor Avenue  
Norwalk, CT 06850  
Tel: (203) 853-9522  
Fax: (203) 853-9921  
E-mail: info@csunitec.com

## 15. MANDATORY INFORMATION

Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking. Keep out of the reach of children.

Labelling instructions in accordance with Environmentally Hazardous Substances Act:

Symbol : flame

R-clauses: R-12 Highly flammable.

S-clauses: S-02 Keep out of the reach of children

S-16 Keep away from sources of ignition - No smoking.

S-23 Do not inhale gas/vapour/mist

S-38 Wear a suitable respirator if ventilation is inadequate (for industrial applications)

S-51 Use only in well-ventilated spaces.

An explosive vapour/air mixture may form if ventilation is inadequate

## 16. OTHER INFORMATION

This information relates only to the substance described herein and is based on present knowledge and experience in our possession as we are unfamiliar with the conditions for use, which lie outside our control.

This information may not be regarded as a guarantee or indication of the quality of our product. The safety information sheet describes the product with a view to the safety requirements and is not intended as technical product information.

The user is at all times responsible for taking the necessary steps to meet the requirements of local laws and regulations.