

TRI-FLOW™

SAFETY DATA SHEET TRI-FLOW LUBRICANT AEROSOL

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

PRODUCT NAME	TRI-FLOW LUBRICANT AEROSOL		
PRODUCT NO.	32396		
INTERNAL ID	Commodity Code 340319 91 00		
SYNONYMS, TRADE NAMES	(SPN 10175)		
APPLICATION	Lubricant		
SUPPLIER	Tri-Flow Thornccliffe Park Chapelton Sheffield S35 2YP enquiry@triflow.co.uk	MANUFACTURER	Ronseal Ltd Thornccliffe Park Chapelton Sheffield S35 2YP enquiry@ronseal.co.uk
EMERGENCY TELEPHONE	Tel +44 (0) 114 246 7171 Fax +44 (0) 114 245 5629		

2 HAZARDS IDENTIFICATION

Extremely flammable. Repeated exposure may cause skin dryness or cracking. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

CLASSIFICATION F+;R12. R52/53, R66.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification
2-(Methoxymethylethoxy)-propanol	252-104-2	34590-94-8	1-2.5%	-
BUTANE	203-448-7	106-97-8	10-25%	F+;R12
Butylated Phenol	204-884-0		< 1%	N;R51/53.
NAPHTHA (PETROLEUM), HYDROTREATED HEAVY.	265-150-3	64742-48-9	2.5-10%	Xn;R65. R10,R66.
PENTYL ACETATE	211-047-3	628-63-7	1-2.5%	R10 R66
PROPANE	200-827-9	74-98-6	10-25%	F+;R12
WHITE SPIRIT	265-185-4	64742-82-1	10-25%	Xn;R65. N;R51/53. R10,R66.

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

4 FIRST-AID MEASURES

GENERAL INFORMATION

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

INHALATION

Remove to fresh air, keep the patient warm and at rest. If breathing has stopped administer artificial respiration. Give nothing by mouth. If unconscious, place in the recovery position and seek medical advice.

INGESTION

If accidentally swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

TRI-FLOW LUBRICANT AEROSOL

SKIN CONTACT

Remove contaminated clothing. Wash skin thoroughly with soap and water, or use a proprietary skin cleanser. Do NOT use solvents or thinners. Seek medical advice if any irritation persists.

EYE CONTACT

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

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

Fire can be extinguished using: alcohol resistant foam, carbon dioxide (CO₂), powder, water spray/ mist. Do not use water jet. Cool aerosol containers exposed to heat with water spray and remove container, if no risk is involved.

SPECIAL FIRE FIGHTING PROCEDURES

Fire will produce dense black smoke containing hazardous products of combustion (see Section 10). Exposure to decomposition products may be hazardous to health. Appropriate self-contained breathing apparatus may be required. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or watercourses.

6 ACCIDENTAL RELEASE MEASURES

SPILL CLEAN UP METHODS

Exclude sources of ignition and ventilate the area. Exclude non-essential personnel. Avoid breathing vapours. Refer to protective measures listed in Section 7 and 8. Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth or vermiculite, and place in a suitable container for disposal in accordance with the waste regulations (see Section 13). Clean preferably with a detergent; avoid the use of solvents. If the product enters drains or sewers, immediately contact the local water company; in the case of contamination of streams, rivers or lakes, the relevant environment agency.

7 HANDLING AND STORAGE

USAGE PRECAUTIONS

Vapours are heavier than air and may spread along floors. They may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentrations higher than the occupational exposure limits. Container must be kept tightly closed. Keep away from heat, sparks and open flame. Avoid skin and eye contact. Smoking, eating and drinking should be prohibited in areas of storage and use.

For Occupational Exposure Controls, refer to Section 8.

The Manual Handling Operations Regulations may apply to the handling of containers/packages of this product.

STORAGE PRECAUTIONS

Aerosol cans: Must not be exposed to direct sunlight or temperatures above 50°C. Keep upright. Observe the label precautions. Store between 5°C and 25°C. Keep in a cool, dry, well ventilated place, away from sources of heat, ignition and direct sunlight. No smoking.

The principles contained in the HSE Guidance Note: Storage of Packaged Dangerous Substances, should be observed when storing this product. Always keep in containers made of the same material as the supply container.

To avoid the risk of spillage, always store and transport in a secure and upright position.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	Std	LT - ppm	LT - mg/m ³	ST - ppm	ST - mg/m ³
2-(Methoxymethylethoxy)-propanol	WEL	50 ppm(Sk)			
BUTANE	WEL	600 ppm	1450 mg/m ³	750 ppm	1810 mg/m ³
NAPHTHA (PETROLEUM), HYDROTREATED HEAVY.	SUP	1000 ppm	No std.		No std.
PENTYL ACETATE	WEL	50 ppm	270 mg/m ³	100 ppm	541 mg/m ³
PROPANE	SUP	Asphyxiating		Asphyxiating	
WHITE SPIRIT	SUP		350 mg/m ³		

INGREDIENT COMMENTS

WEL = Workplace Exposure Limits SUP = Supplier's recommendation.

TRI-FLOW LUBRICANT AEROSOL

ENGINEERING MEASURES

Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and/or solvent vapours below the relevant occupational exposure limits, suitable respiratory protective equipment should be worn.

RESPIRATORY EQUIPMENT

If exposure to hazardous substances identified above cannot be controlled by the provision of local exhaust ventilation and good general extraction, suitable respiratory protective equipment should be worn.

HAND PROTECTION

When skin exposure may occur, advice should be sought from glove suppliers on appropriate types. Barrier creams may help to protect exposed areas of skin but are not substitutes for full physical protection. They should not be applied once exposure has occurred.

EYE PROTECTION

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

OTHER PROTECTION

Cotton or cotton/synthetic overalls or coveralls are normally suitable. Grossly contaminated clothing should be removed and the skin washed with soap and water or a proprietary skin cleaner. Do not use solvents or thinners as skin cleaning agents.

All personal protective equipment, including respiratory protective equipment, used to control exposure to hazardous substances must be selected to meet the requirements of the COSHH Regulations.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Aerosol
COLOUR	Light to medium brownish.
ODOUR	Characteristic solvent type.
SOLUBILITY	Immiscible with water.
FLASH POINT (°C)	< 0 CC (Closed cup).

10 STABILITY AND REACTIVITY

STABILITY

Stable if stored under recommended storage and handling conditions.

CONDITIONS TO AVOID

Avoid heat, flames and other sources of ignition. Keep away from oxidising agents and strongly alkaline and strongly acidic materials to prevent the possibility of exothermic reaction.

HAZARDOUS DECOMPOSITION PRODUCTS

In a fire, hazardous decomposition products such as smoke, carbon monoxide, carbon dioxide and alcohols may be produced.

11 TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION

There is no data available on the product itself. The product has been assessed following the conventional method in CHIP and is classified for toxicological hazards accordingly. This takes into account, where known, delayed and immediate effects and also chronic effects from components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact. See Sections 3 and 15 for details of the resulting hazard classification.

Exposure to organic solvent vapours in excess of the stated occupational exposure limit may result in adverse health effects such as irritation of the mucous membrane and the respiratory system and adverse effects on the kidney, liver and central nervous systems. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin.

Repeated or prolonged contact with the product may lead to removal of natural fats from the skin resulting in non-allergic contact dermatitis and absorption through the skin. Splashes in the eyes may cause irritation and reversible local damage.

12 ECOLOGICAL INFORMATION

TRI-FLOW LUBRICANT AEROSOL

ECOTOXICITY

The product has been assessed following the conventional method in CHIP and is classified for ecological hazards accordingly. See Sections 3 and 15 for details.

DEGRADABILITY

There is no data available on the product itself.

ACUTE FISH TOXICITY

There is no data available on the product itself.

WATER HAZARD CLASSIFICATION

There is no data available on the product itself. The product should not be allowed to enter drains or watercourses, or be deposited where it can affect ground or surface waters.

13 DISPOSAL CONSIDERATIONS

DISPOSAL METHODS

Do not allow into drains or watercourses, or dispose of where ground or surface waters may be affected. Wastes, including emptied containers, are controlled wastes and should be disposed of in accordance with regulations made under the Control of Pollution Act and the Environmental Protection Act. Using information provided in this data sheet, advice should be obtained from the relevant waste authority on the classification of empty containers.

14 TRANSPORT INFORMATION

GENERAL

Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that person's transporting the product know what to do in an accident or spillage.
Limited Quantity concessions may apply to the carriage of this product.



PROPER SHIPPING NAME

AEROSOLS

SEA TRANSPORT NOTES

Marine Pollutant [White Spirit]

UN NO. ROAD

1950

ADR CLASS

Class 2: Gases

ADR PACK GROUP

5F

UN NO. SEA

1950

EMS

F-D; S-U

MARINE POLLUTANT



15 REGULATORY INFORMATION

LABELLING



Extremely Flammable

RISK PHRASES

R12	Extremely flammable.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R66	Repeated exposure may cause skin dryness or cracking.

TRI-FLOW LUBRICANT AEROSOL

SAFETY PHRASES

A1	Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.
A2	Do not spray on a naked flame or any incandescent material.
S2	Keep out of the reach of children
S16	Keep away from sources of ignition - No smoking.
S23	Do not breathe vapour/spray.
S24/25	Avoid contact with skin and eyes.
S37	Wear suitable gloves.
S46	If swallowed, seek medical advice immediately and show this container or label.
S51	Use only in well-ventilated areas.
S56	Dispose of this material and its container to hazardous or special waste collection point.

UK REGULATORY REFERENCES

The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks as required by other health and safety legislation.

The provisions of the Health and Safety at Work etc. Act and the Control of Substances Hazardous to Health Regulations apply to the use of this product at work.

The Manual Handling Operations Regulations

The Aerosol Dispensers (EEC Requirements) Regulations.

The Chemicals (Hazard Information and Packaging for Supply) Regulations.

The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations.

European Agreement concerning the International Carriage of Dangerous Goods by Road [ADR]

EU DIRECTIVES

Dangerous Preparations Directive 88/379 Safety Data Sheet Directive 91/155 Dangerous Substance Directive 67/548

GUIDANCE NOTES

Occupational Exposure Limits EH40

16 OTHER INFORMATION

GENERAL INFORMATION

The information contained in this safety data sheet is based on the present state of knowledge and current national legislation. It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications.

The product should not be used for purposes other than those shown in section 1 without first referring to the supplier and obtaining written handling instructions. As the specific conditions of use of the product are outside the supplier's control, the user is responsible for ensuring that the requirements of relevant legislation are complied with.

PTFE LUBRICANT POWDERS

Smoking materials should not be taken into the work area.

Smoking materials should not be subsequently handled before the operators have washed their hands.

If sprayed onto hot surfaces, or if the coating is heated (over 200C), good exhaust ventilation must be provided.

For specific guidance contact Ronseal Technical Services. [Helpline +44 (0) 114 240 9469] ; Email: enquiry@ronseal.co.uk

REVISION COMMENTS

Revised Composition/Information on Ingredients.

REVISION DATE 24-01-2008

TRI-FLOW LUBRICANT AEROSOL

REV. NO./REPL. SDS GENERATED 10175/2
SDS NO. 10175/3

SAFETY DATA SHEET STATUS

Approved.

SIGNATURE S Russell

RISK PHRASES IN FULL

NC Not classified.
R10 Flammable.
R12 Extremely flammable.
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65 Harmful: may cause lung damage if swallowed.
R66 Repeated exposure may cause skin dryness or cracking.

DISCLAIMER

Information contained in this Safety Data Sheet is based on data considered to be accurate at the time of its preparation. Despite our efforts, it may not be up to date or applicable to the circumstances of any particular case. ,
The supplier accepts no responsibility whatsoever (except otherwise provided in law) for any damage or injury resulting from abnormal use, from any failure to follow appropriate practices or from hazards inherent in the product.