SAFETY DATA SHEET
TETRASCHUTZ AEROSOL

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product Name TETRASCHUTZ AEROSOL
Product No. TSH500

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses Underbody coat

1.3. Details of the supplier of the safety data sheet

Manufacturer
TETROSYL LIMITED
BEVIS GREEN WORKS
WALMERSLEY
BURY
BL9 6RE
0161 764 5981
0161 797 5899
info@tetrosyl.com

1.4. Emergency telephone number

0161 764 5981

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification (1999/45/EEC) F+;R12. R52/53.
Environment
The product contains a substance which is harmful to aquatic organisms and which may cause long term adverse effects in the aquatic environment.

2.2. Label elements

Detergent Labelling:

>= 30%	Aliphatic hydrocarbons
5 - < 15%	Aromatic hydrocarbons

Labelling

Extremely Flammable

Risk Phrases

R12	Extremely flammable.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety Phrases

A1	Pressurized 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.

S9	Keep container in a well-ventilated place.
S16	Keep away from sources of ignition - No smoking.
S23	Do not breathe vapour/spray.
S51	Use only in well-ventilated areas.
S56	Dispose of this material and its container to hazardous or special waste collection point.
S46	If swallowed, seek medical advice immediately and show this container or label.

2.3. Other hazards

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

BUTANE/PROPANE BLEND 10-30%

CAS-No.: 68476-85-7 EC No.: 270-704-2

Classification (EC 1272/2008)	Classification (67/548/EEC)
Flam. Liq. 1 - H224	F+;R12.

ISO-BUTANOL 1-5%

CAS-No.: 78-83-1 EC No.: 201-148-0

Classification (EC 1272/2008)	Classification (67/548/EEC)
Flam. Liq. 3 - H226	R10
Skin Irrit. 2 - H315	Xi;R37/38,R41
Eye Dam. 1 - H318	R67
STOT Single 3 - H335	
STOT Single 3 - H336	

NAPHTHA (PETROLEUM), HYDROTREATED LIGHT 5-10%

CAS-No.: EC No.: 927-510-4 Registration Number: 01-2119475515-33-XXXX

Classification (EC 1272/2008)	Classification (67/548/EEC)
Flam. Liq. 2 - H225	Xn;R65.
Skin Irrit. 2 - H315	Xi;R38.
Asp. Tox. 1 - H304	F;R11.
Aquatic Chronic 2 - H411	N;R51/53.

PETROLEUM DISTILLATES 5-10%

CAS-No.: 64742-82-1 EC No.: 265-185-4

Classification (EC 1272/2008)	Classification (67/548/EEC)
Flam. Liq. 3 - H226	Xn;R65.
EUH066	N;R51/53.
STOT Single 3 - H336	R10,R66,R67.
Asp. Tox. 1 - H304	
Aquatic Chronic 2 - H411	

XYLENE		5-10%
CAS-No.: 1330-20-7	EC No.: 215-535-7	

Classification (EC 1272/2008)	Classification (67/548/EEC)
Flam. Liq. 3 - H226	R10
Acute Tox. 4 - H312	Xn;R20/21
Acute Tox. 4 - H332	Xi;R38
Skin Irrit. 2 - H315	

The Full Text for all R-Phrases and Hazard Statements is Displayed in Section 16

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General Information
Get medical attention if any discomfort continues. Remove affected person from source of contamination. General first aid, rest, warmth and fresh air. NOTE! Effects may be delayed. Keep affected person under observation.
Inhalation.
Remove victim immediately from source of exposure. In case of inhalation of spray mist: Move person into fresh air and keep at rest. Move injured person into fresh air and keep person calm under observation. If necessary, seek hospital and bring these instructions. Be aware that symptoms of lung oedema (shortness of breath) may develop up to 24 hours after exposure. Immediately call an ambulance.
Ingestion
Immediately rinse mouth and drink plenty of water. Keep person under observation. If person becomes uncomfortable take to hospital along with these instructions. Provide rest, warmth and fresh air. Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs.
Skin Contact
Wash skin thoroughly with soap and water. Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if any discomfort continues.
Eye Contact
Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Do not rub eye. Get medical attention promptly if symptoms occur after washing.

4.2. Most important symptoms and effects, both acute and delayed

General Information
The severity of the symptoms described will vary dependant of the concentration and the length of exposure. NOTE! Effects may be delayed. Keep affected person under observation.
Inhalation.
May cause an asthma-like shortness of breath. In case of overexposure, organic solvents may depress the central nervous system causing dizziness and intoxication, and at very high concentrations unconsciousness and death. Drowsiness, dizziness, disorientation, vertigo. Vapours may cause drowsiness and dizziness. In high concentrations, vapours are anaesthetic and may cause headache, fatigue, dizziness and central nervous system effects.
Ingestion
May cause discomfort if swallowed. May cause stomach pain or vomiting. May cause nausea, headache, dizziness and intoxication. Due to the physical nature of this material it is unlikely that swallowing will occur.
Skin Contact
Prolonged contact may cause redness, irritation and dry skin. May cause skin irritation/eczema.
Eye Contact
Extreme irritation of eyes and mucous membranes, including burning and tearing. Vapour, spray or dust may cause chronic eye irritation or eye damage. May cause blurred vision and serious eye damage.

4.3. Indication of any immediate medical attention and special treatment needed

No recommendation given, but first aid may still be required in case of accidental exposure, inhalation or ingestion of this chemical. If in doubt, GET MEDICAL ATTENTION PROMPTLY!

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing Media
Use fire-extinguishing media appropriate for surrounding materials. Cool aerosol containers exposed to heat with water spray and remove container, if no risk is involved.
Unsuitable Extinguishing Media
Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Hazardous Combustion Products
In case of fire, toxic gases (CO, CO2, NOx) may be formed. During fire, toxic gases (CO, CO2, NOx) are formed.
Unusual Fire & Explosion Hazards
Extremely flammable. Severe explosion hazard when vapours are exposed to flames. Risk of explosion if heated. Vapours are heavier than air and may spread near ground to sources of ignition. May travel considerable distance to source of ignition and flash back. Heat may cause the containers to explode. Aerosol cans may explode in a fire.
Specific Hazards
Aerosol containers can explode when heated, due to excessive pressure build-up. Vapours may be ignited by a spark, a hot surface or an ember. Vapours may form explosive air mixtures even at room temperature.

5.3. Advice for firefighters

Special Fire Fighting Procedures
Be aware of risk of fire re-starting, and risk of explosion. Cool containers exposed to flames with water until well after the fire is out. Use water to keep fire exposed containers cool and disperse vapours.
Protective Measures In Fire
Self contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Wear protective clothing as described in Section 8 of this safety data sheet. Avoid inhalation of vapours and aerosol spray. In case of spills, beware of slippery floors and surfaces.

6.2. Environmental precautions

Avoid discharge into drains, water courses or onto the ground. The product should not be dumped in nature but collected and delivered according to agreement with the local authorities.

6.3. Methods and material for containment and cleaning up

For waste disposal, see section 13. If leakage cannot be stopped, evacuate area. Stop leak if possible without risk. Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Remove sources of ignition. Collect with absorbent, non-combustible material into suitable containers.

6.4. Reference to other sections

Wear protective clothing as described in Section 8 of this safety data sheet. For waste disposal, see section 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Read and follow manufacturer's recommendations. Eliminate all sources of ignition. Wear full protective clothing for prolonged exposure and/or high concentrations. Good personal hygiene is necessary. Wash hands and contaminated areas with water and soap before leaving the work site. Do not eat, drink or smoke when using the product. Avoid inhalation of vapours/spray and contact with skin and eyes. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level. Do not use in confined spaces without adequate ventilation and/or respirator. Mechanical ventilation or local exhaust ventilation may be required. Observe occupational exposure limits and minimise the risk of inhalation of vapours and mist.

7.2. Conditions for safe storage, including any incompatibilities

Keep away from heat, sparks and open flame. Keep upright. Protect against physical damage and/or friction. Aerosol cans: Must not be exposed to direct sunlight or temperatures above 50°C. Do not store for long periods or in large quantities. Store in a cool and well-ventilated place. Store in a dry place. Do not store near heat sources or expose to high temperatures.

7.3. Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Name	STD	TWA - 8 Hrs		STEL - 15 Min		Notes
BUTANE/PROPANE BLEND	WEL	1000 ppm	1750 mg/m3	1250 ppm	2180 mg/m3	Carc
ISO-BUTANOL	WEL	50 ppm	154 mg/m3	75 ppm	231 mg/m3	
PETROLEUM DISTILLATES	WEL		600 mg/m3			
XYLENE	WEL	50 ppm	220 mg/m3	100 ppm	441 mg/m3	Sk

WEL = Workplace Exposure Limit.
Sk = Can be absorbed through skin.
Carc = Capable of causing cancer and/or heritable genetic damage.

8.2. Exposure controls

Protective Equipment

Engineering Measures
Provide adequate ventilation. Observe occupational exposure limits and minimize the risk of inhalation of spray. Provide explosion proof ventilation for high concentrations.
Respiratory Equipment
In case of inadequate ventilation use suitable respirator.
Hand Protection
No specific hand protection noted, but gloves may still be advisable.
Eye Protection
Wear approved, tight fitting safety glasses where splashing is probable.
Other Protection
Provide eyewash station. Wear appropriate clothing to prevent repeated or prolonged skin contact.

Hygiene Measures
Wash contaminated clothing before reuse. Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Wash promptly with soap & water if skin becomes contaminated. DO NOT SMOKE IN WORK AREA! When using do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance	Aerosol
Colour	Black
Odour	Solvent.
Solubility	Insoluble in water
Initial Boiling Point and Boiling Range:	Technically not feasible. 90°C

Melting Point (°C)
Scientifically unjustified.

Relative Density	1.120 g/cm³ 20°C

Vapour Density (Air=1)
Scientifically unjustified.
Vapour Pressure
Scientifically unjustified.
Evaporation Rate
Scientifically unjustified.
pH-Value, Conc. Solution
Scientifically unjustified.

Viscosity	3500 - 5000 cps 20°C

Decomposition Temperature (°C)
Scientifically unjustified.
Odour Threshold, Lower
Scientifically unjustified.
Odour Threshold, Upper
Scientifically unjustified.

Flash Point (°C)	Technically not feasible. -5°C

Auto Ignition Temperature (°C)
Scientifically unjustified.
Flammability Limit - Lower(%)
Scientifically unjustified.
Flammability Limit - Upper(%)
Scientifically unjustified.
Partition Coefficient
(N-Octanol/Water)
Scientifically unjustified.
Oxidising Properties
Not determined.

9.2. Other information

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

No specific reactivity hazards associated with this product. The product may form explosive vapours/air mixtures even at normal room temperatures.

10.2. Chemical stability

Stable under normal temperature conditions and recommended use.

10.3. Possibility of hazardous reactions

Not relevant.

10.4. Conditions to avoid

Avoid heat, flames and other sources of ignition. Avoid exposure to high temperatures or direct sunlight.

10.5. Incompatible materials

Materials To Avoid
No incompatible groups noted.

10.6. Hazardous decomposition products

None under normal conditions.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Toxic Dose 1 - LD 50 >2000 (XYLENE) mg/kg (oral rat)
Toxic Dose 2 - LD 50 >5050 (PETROLEUM DISTILLATES) mg/kg (oral rat)
Toxicological Information
No information available.
Skin Contact
Irritating to skin.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:
The product contains a substance which is harmful to aquatic organisms and which may cause long term adverse effects in the aquatic environment.

12.1. Toxicity

LC 50, 96 Hrs, Fish mg/l >13.4 mg/l (NAPHTHA (PETROLEUM) HYDROTREATED LIGHT)
Acute Toxicity - Fish
Not available.
EC 50, 48 Hrs, Daphnia, mg/l 3 mg/l (NAPHTHA (PETROLEUM) HYDROTREATED LIGHT)
Acute Toxicity - Aquatic Invertebrates
Not available.
IC 50, 72 Hrs, Algae, mg/l 10 mg/l (NAPHTHA (PETROLEUM) HYDROTREATED LIGHT)

12.2. Persistence and degradability

Degradability:
No data available.

12.3. Bioaccumulative potential

Bioaccumulative Potential:
No data available on bioaccumulation.

12.4. Mobility in soil

Mobility:
The product is insoluble in water.
Adsorption/Desorption Coefficient
Not available.

12.5. Results of PBT and vPvB assessment

Not Classified as PBT/vPvB by current EU criteria.

12.6. Other adverse effects

Not available.

SECTION 13: DISPOSAL CONSIDERATIONS

General Information
Waste is classified as hazardous waste. Disposal to licensed waste disposal site in accordance with the local Waste Disposal Authority. Do not puncture or incinerate even when empty.

13.1. Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements. Confirm disposal procedures with environmental engineer and local regulations.

SECTION 14: TRANSPORT INFORMATION

14.1. UN number

UN No. (ADR/RID/ADN)	1950
UN No. (IMDG)	1950
UN No. (ICAO)	1950

14.2 UN Proper shipping name

Proper Shipping Name	AEROSOLS

14.3 Transport hazard class(es)

ADR/RID/ADN Class	2
ADR/RID/ADN Class	Class 2: Gases
ADR Label No.	2.1
IMDG Class	2.1
ICAO Class/Division	2.1

Transport Labels

14.4. Packing group

ADR/RID/ADN Packing group	N/A
IMDG Packing group	N/A
ICAO Packing group	N/A

14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant
No.

14.6. Special precautions for user

EMS	F-D, S-U

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

SECTION 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU Legislation
Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

15.2. Chemical Safety Assessment

SECTION 16: OTHER INFORMATION

Revision Comments

NOTE: Lines within the margin indicate significant changes from the previous revision.

Issued By	Health & Safety Department
Revision Date	06/07/2011
Revision	14
Supersedes Date	17/12/2007 v13
Safety Data Sheet Status	Approved.

Risk Phrases In Full

R12	Extremely flammable.
R10	Flammable
R20/21	Harmful by inhalation and in contact with skin.
R65	Harmful: may cause lung damage if swallowed.
R11	Highly flammable.
R37/38	Irritating to respiratory system and skin.
R38	Irritating to skin.
R66	Repeated exposure may cause skin dryness or cracking.
R41	Risk of serious damage to eyes.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R67	Vapours may cause drowsiness and dizziness.

Hazard Statements In Full

EUH066	Repeated exposure may cause skin dryness or cracking.
H224	Extremely flammable liquid and vapour.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.