SAFETY DATA SHEET
ENGINE CLNR / DEGREASER

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

1.1. Product identifier

Product name ENGINE CLNR / DEGREASER
Product No. ECL001, ECL005, ECL025, ECL500

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

Identified uses Car maintenance product.

1.3. Details of the supplier of the safety data sheet

Supplier
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) Xn;R65. R10, R52/53.

2.2. Label elements

Contains KEROSINE (PETROLEUM); STRAIGHT RUN KEROSINE

Detergent Labelling:

< 5% non-ionic surfactants

Labelling

Harmful

Risk Phrases

R10	Flammable
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65	Harmful: may cause lung damage if swallowed.

Safety Phrases

S2	Keep out of the reach of children.
S13	Keep away from food, drink and animal feeding stuffs.
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.

2.3. Other hazards

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

Alcohol Ethoxylate		1-5%
CAS-No.: 68439-45-2	EC No.:	
Classification (EC 1272/2008) Not classified.	Classification (67/548/EEC) Xi;R41.	

Cyclicamine		1-5%
CAS-No.: 68937-01-9	EC No.: 273-051-1	
Classification (EC 1272/2008) Acute Tox. 4 - H302 Skin Corr. 1B - H314 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410	Classification (67/548/EEC) Xn;R22. C;R34. N;R50/53.	

KEROSINE (PETROLEUM); STRAIGHT RUN KEROSINE		60-100%
CAS-No.: 8008-20-6	EC No.: 232-366-4	
Classification (EC 1272/2008) Asp. Tox. 1 - H304	Classification (67/548/EEC) Xn;R65	

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

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General information
Remove affected person from source of contamination. NOTE! Effects may be delayed. Keep affected person under observation. Move the exposed person to fresh air at once. NOTE! Keep affected person away from heat, sparks and flames! Place unconscious person on the side in the recovery position and ensure breathing can take place. Keep the affected person warm and at rest. Get prompt medical attention.
Inhalation
Remove victim immediately from source of exposure. Move injured person into fresh air and keep person calm under observation. If uncomfortable: Seek hospital and bring these instructions.
Ingestion
Immediately rinse mouth and drink plenty of water or milk. Keep person under observation. Do not induce vomiting. If vomiting occurs, keep head low. Transport immediately to hospital and bring along these instructions. Do not give victim anything to drink if he is unconscious. NOTE! Keep affected person away from heat, sparks and flames!

Skin contact
Remove contaminated clothes and rinse skin thoroughly with 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 if any discomfort continues.

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.
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. Fumes from the stomach contents may be inhaled resulting in the same symptoms as inhalation. Congestion of the lungs may occur producing severe shortness of breath.
Skin contact
Prolonged or repeated contact with skin may cause redness, itching, irritation and eczema/chapping.
Eye contact
May cause temporary eye irritation.

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
Extinguish with alcohol-resistant foam, carbon dioxide or dry powder. Use fire-extinguishing media appropriate for surrounding materials.
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
Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.
Unusual Fire & Explosion Hazards
May form explosive mixture with air at very high concentration.
Specific hazards
Fire creates: Carbon monoxide (CO). Carbon dioxide (CO_2).

5.3. Advice for firefighters

Special Fire Fighting Procedures
No specific fire fighting procedure given.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

In case of inadequate ventilation, use respiratory protection. Do not smoke, use open fire or other sources of ignition. Avoid contact with skin and eyes. In case of spills, beware of slippery floors and surfaces. For personal protection, see section 8. Avoid inhalation of vapours and contact with skin and eyes.

6.2. Environmental precautions

Do not discharge into drains, water courses or onto the ground. Prevent entry into drains. Avoid discharge to the aquatic environment. 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. Stop leak if possible without risk. Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Provide ventilation and confine spill. Do not allow runoff to sewer. Cover large spillages with alcohol-resistant foam. Absorb with inert, damp, non-combustible material, then flush area with water. Collect spillage in containers, seal securely and deliver for disposal according to local regulations.

6.4. Reference to other sections

For waste disposal, see section 13. For personal protection, see section 8.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Read and follow manufacturer's recommendations. Eliminate all sources of ignition. Keep away from heat, sparks and open flame. Static electricity and formation of sparks must be prevented. Do not eat, drink or smoke when using the product. Avoid inhalation of vapours/spray and contact with skin and eyes. Observe good chemical hygiene practices. Mechanical ventilation or local exhaust ventilation may be required. Provide good ventilation.

7.2. Conditions for safe storage, including any incompatibilities

Keep containers tightly closed. Keep upright. Keep in original container. Avoid contact with oxidising agents. 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

8.2. Exposure controls

Protective equipment

Engineering measures
Observe occupational exposure limits and minimize the risk of inhalation of vapours. Provide adequate ventilation.
Respiratory equipment
If ventilation is insufficient, suitable respiratory protection must be provided. Use respiratory equipment with gas filter, type A2.
Hand protection
For prolonged or repeated skin contact use suitable protective gloves. Be aware that the liquid may penetrate the gloves. Frequent change is advisable. Nitrile gloves are recommended.
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
When using do not eat, drink or smoke. Wash hands after contact. Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash contaminated clothing before reuse.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance	Clear Liquid
Colour	Blue.
Odour	Characteristic.
Solubility	Insoluble in water
Initial boiling point and boiling range	175
Melting point (°C)	
Scientifically unjustified.	
Relative density	0.79 20
Vapour density (air=1)	
Scientifically unjustified.	
Vapour pressure	
Scientifically unjustified.	
Evaporation rate	
Scientifically unjustified.	
pH-Value, Conc. Solution	
Scientifically unjustified.	
Viscosity	<50 cps 20
Decomposition temperature (°C)	
Scientifically unjustified.	
Odour Threshold, Lower	
Scientifically unjustified.	
Odour Threshold, Upper	
Scientifically unjustified.	
Flash point	77
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 available.	

9.2. Other information

None.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

No specific reactivity hazards associated with this product.

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.

10.5. Incompatible materials

Materials To Avoid
No specific, or groups of materials are likely to react to produce a hazardous situation.

10.6. Hazardous decomposition products

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Toxic Dose 1 - LD 50
>5000 mg/kg (oral rat)

Aspiration hazard:
General information
Prolonged and repeated contact with solvents over a long period may lead to permanent health problems.
Inhalation
Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia.
Ingestion
Harmful: may cause lung damage if swallowed.
Health Warnings
Prolonged and repeated contact with solvents over a long period may lead to permanent health problems.
Route of entry
Ingestion.
Medical Considerations
Risk of chemical pneumonia after aspiration.

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	2-5
EC 50, 48 Hrs, Daphnia, mg/l	1.4
IC 50, 72 Hrs, Algae, mg/l	1-3

12.2. Persistence and degradability

Degradability
There are no data on the degradability of this product.

12.3. Bioaccumulative potential

Bioaccumulative potential
No data available on bioaccumulation.
Partition coefficient
Scientifically unjustified.

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.

13.1. Waste treatment methods

Confirm disposal procedures with environmental engineer and local regulations.

SECTION 14: TRANSPORT INFORMATION

14.1. UN number

UN No. (ADR/RID/ADN)	2924
UN No. (IMDG)	2924
UN No. (ICAO)	2924

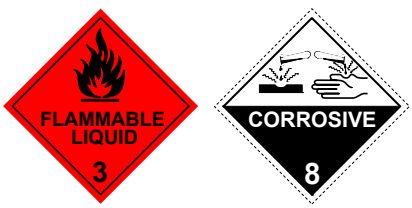
14.2. UN proper shipping name

Proper Shipping Name	FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Cyclicamine)

14.3. Transport hazard class(es)

ADR/RID/ADN Class	3
ADR/RID/ADN Class	Class 3: Flammable liquids.
ADR/RID/ADN Subsidiary Risk	8
ADR Label No.	3 & 8
IMDG Class	3
IMDG Subsidiary risk	8
ICAO Class/Division	3
ICAO Subsidiary risk	8

Transport Labels



14.4. Packing group

ADR/RID/ADN Packing group	III
IMDG Packing group	III
ICAO Packing group	III

14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant
No.

14.6. Special precautions for user

EMS	F-E, S-C
Emergency Action Code	3W
Hazard No. (ADR)	38

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

No chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION

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

Revision Date	16/05/2012
Revision	9
Supersedes date	19/09/2005 v8
Safety Data Sheet Status	Approved.

Risk Phrases In Full

R34	Causes burns.
R10	Flammable
R22	Harmful if swallowed.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65	Harmful: may cause lung damage if swallowed.
R41	Risk of serious damage to eyes.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Hazard Statements In Full

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.