SAFETY DATA SHEET

1. Product and Company Identification

TOTAL K.O.-ENGINE SHAMPOO AND DEGREASER **Product identifier**

Other means of identification Not available

Recommended use

Motor Shampoo and concentrated degreaser

Recommended restrictions None known.

D.L. INDUSTRIAL SUPPLIES Manufacturer

ONTARIO, K0A 1M0

Tel.: 1 888-214-3207 - Cell.: 613 884-3207

www.totalko.ca

Emergency Phone only, 24 hours: (613) 996-6666 (CANUTEC)

2. Hazards Identification

Flammable liquids Physical hazards Category 3 Specific target organ toxicity, single exposure Health hazards Category 3 Aspiration hazard Category 1

> Not classified. Not classified.

Environmental hazards

OSHA defined hazards

Label elements



Signal word

Hazard statement

Danger

Flammable liquid and vapor.

May be fatal if swallowed and enters airways.

May cause respiratory irritation. May cause drowsiness or dizziness

Precautionary statement

Prevention

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

Avoid breathing mist or vapor. Use only outdoors or in a well-ventilated area. Wear protective

gloves/eye protection/face protection.

IF SWALLOWED: Immediately call a POISON CENTER/doctor. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove person Response

to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.

Do NOT induce vomiting. In case of fire: Use appropriate media to extinguish.

Storage

Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place.

Keep cool. Store locked up. Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise

classified (HNOC)

Supplemental information

None known. Not applicable

3. Composition/Information on Ingredients

Mixture Chemical name Common name and synonyms **CAS** number % Distillates (Petroleum) Light Hydrotrated 64742-47-8 70 - 85 2-Butoxyethanol 111-76-2 1 - 5

4. First Aid Measures

Inhalation Skin contact If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or rash occurs: Get medical advice/attention. Specific treatment (see product label). Flush with cool water. Remove contact lenses, if applicable, and continue flushing. Obtain

medical attention if irritation persists.

Eye contact

Ingestion If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. Direct contact with eyes may cause temporary irritation. Skin irritation. May cause redness and pain. Most important

symptoms/effects, acute and delayed

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Flush with water immediately.

While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation.

Symptoms may be delayed. Treat patient symptomatically.

General information

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. If you feel unwell, seek medical advice (show the label where possible). Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse. Keep away from sources of ignition. No smoking. Avoid contact with eyes and skin. Wear suitable protective clothing. Keep out of reach of children.

5. Fire Fighting Measures

Suitable extinguishing media Unsuitable extinguishing media

Carbon dioxide (CO₂). Alcohol resistant foam. Dry chemical.

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed. Firefighters should wear a self-contained breathing apparatus.

Special protective equipment and precautions for firefighters

Firefighters should wear full protective clothing including self contained breathing apparatus. Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire-fighting

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so

equipment/instructions Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards

Flammable liquid and vapor.

Hazardous combustion

May include and are not limited to: Oxides of carbon.

products

Explosion data

without risk.

Not available

Sensitivity to mechanical impact

Not available.

Sensitivity to static

Not available.

discharge

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep out of low areas. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid inhalation of vapors or mists. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Stop leak if you can do so without risk. Clean surface thoroughly to remove residual contamination. Pick up and discard. Prevent entry into waterways, sewers, basements or confined areas. For waste disposal, see section 13 of the SDS.

Methods and materials for containment and cleaning up

Environmental precautions

Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

7. Handling and Storage

Precautions for safe handling

Vapors may form explosive mixtures with air. Do not handle, store or open near an open flame. sources of heat or sources of ignition. Protect material from direct sunlight. Do not smoke. Avoid contact with eyes, skin and clothing. Avoid breathing mist or vapor. Wear appropriate personal protective equipment. When using do not eat or drink. Wash thoroughly after handling. Use good industrial hygiene practices in handling this material. Avoid prolonged or repeated skin contact with this material. Keep container tightly closed.

Conditions for safe storage, including any incompatibilities

Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a closed container away from incompatible materials.

Store in a cool, dry place out of direct sunlight. Store in a well-ventilated place. Store in cool place. Refrigeration recommended. Store away from incompatible materials (see Section 10 of the SDS). Keep in an area equipped with sprinklers. Keep out of reach of children.

Do not store at temperatures above 120°F (49°C).

8. Exposure Controls/Personal Protection

Occupational exposure limits

US. ACGIH Threshold Limit Values

Value Components Type

US. AIHA Workplace Environmental Exposure Level (WEEL) Guides

Components **Type** Value Distillates (Petroleum) Light Hydrotrated TWA ACGIH 300 ppm TWA: Ceilling concentration: 20 ppm ACGIH 2-Butoxyethanol

Biological limit values

Exposure guidelines No biological exposure limits noted for the ingredient(s).

Appropriate engineering

controls

Chemicals listed in section 3 that are not listed here do not have established limit values for

ACGIH or OSHA PEL.

Not available.

Individual protection measures, such as personal protective equipment

Eye/face protection Chemical splash goggles.

Skin protection

Hand protection Chemical resistant gloves. Confirm with a reputable supplier first.

Other Wear appropriate chemical resistant clothing. As required by employer code. Where exposure

guideline levels may be exceeded, use an approved NIOSH respirator. Respiratory protection

Not applicable.

Thermal hazards

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Wash hands before breaks and immediately after handling

the product.

9. Physical and Chemical Properties

Appearance Liquid Physical state Liquid. **Form** Liquid. Color Colorless

Odor Hydrocarbons solvent

Not available. Odor threshold Not available. pН Not available. Melting point/freezing point Initial boiling point and boiling Not available.

range

Pour point Not available. Specific gravity Not available. Partition coefficient Not available.

(n-octanol/water)

43 °C Flash point

Evaporation rate Not available. Flammability (solid, gas) Not applicable. Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Not available

Flammability limit - upper

(%)

Not available.

Not available. Explosive limit - lower (%) Not available. **Explosive limit - upper (%)**

Vapor pressureNot available.Vapor densityNot available.Relative density0.79 – 0.8Solubility(ies)Not available.Auto-ignition temperatureNot available.Decomposition temperatureNot available.ViscosityNot available.

10. Stability and Reactivity

Reactivity

This product may react with oxidizing agents.

Hozardous polymerization does not occur.

Possibility of hazardous

reactions

Hazardous polymerization does not occur.

Chemical stability Stable under recommended storage conditions.

Conditions to avoid Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the

flash point. Do not mix with other chemicals.

Incompatible materials Acids. Oxidizers.

Hazardous decomposition

May include and are not limited to: Oxides of carbon.

products

11. Toxicological Information

Routes of exposure Eye, Skin contact, Inhalation, Ingestion.

Information on likely routes of exposure

IngestionMay be fatal if swallowed and enters airways.InhalationMay be fatal if swallowed and enters airways.

Skin contactCauses skin irritation. May cause an allergic skin reaction.Eye contactDirect contact with eyes may cause temporary irritation.

Symptoms related to the physical, chemical and

toxicological characteristics

May cause an allergic skin reaction. Skin irritation. May cause redness and pain. Dermatitis.

Rash.

Information on toxicological effects

Acute toxicity May be fatal if swallowed and enters airways. May cause an allergic skin reaction. Contains a

potential skin sensitizer.

Components Species Test Results

Distillates (Petroleum) Light Hydrotrated

Acute

2-Butoxyethanol

Acute

 Oral LD50
 Rat
 1300 mg/kg

 Dermal LD50
 Rat
 > 2000 mg/kg

Skin corrosion/irritation Causes skin irritation.

Exposure minutesNot available.Erythema valueNot available.Oedema valueNot available.

Serious eye damage/eye

irritation

Direct contact with eyes may cause temporary irritation.

Corneal opacity value Not available.

Iris lesion value Not available.

Conjunctival reddening Not available.

value

Conjunctival oedema value Not available.

Recover days Not available.

Respiratory or skin sensitization

Respiratory sensitization Not available.

Skin sensitization May cause an allergic skin reaction. Prolonged or repeated exposure can cause drying, defatting

and dermatitis.

Germ cell mutagenicityNon-hazardous by WHMIS/OSHA criteria. **Mutagenicity**Non-hazardous by WHMIS/OSHA criteria.

Carcinogenicity Ingredients not listed below are not classified or listed by IARC, NTP, OSHA and ACGIH.

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Reproductive toxicityNon-hazardous by WHMIS/OSHA criteria. **Teratogenicity**Non-hazardous by WHMIS/OSHA criteria.

Specific target organ toxicity -

single exposure

Not classified.

12. Ecological Information

Ecotoxicity S	ee below	
Components	Species	Test Results
Distillates (Petroleum) Light Hydrotra	ated Pseudokirchneriella subcapitata (72h)	EL50 > 1000 mg/l
	Oncorhynchus mykiss (96 h)	LL50 > 1000 mg/l
	Daphnia Magna (48 h)	EL0 1000 mg/l
2-Butoxyethanol	LC50 Poisson (Truite arc en ciel) (96 h)	1474 mg/l
	CE50 Daphnia magna (48 h)	1550 mg/l
	CE50 Algue (72 h)	1840 mg/l

Persistence and degradabilityNo data availableBioaccumulative potentialNo data availableMobility in soilNo data availableMobility in generalNo available

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal Considerations

Disposal instructions Review federal, state/provincial, and local government requirements prior to disposal. Collect and

reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international

regulations.

Local disposal regulations

Hazardous waste code

Dispose in accordance with all applicable regulations.

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport Information

U.S. Department of Transportation (DOT)

Not regulated as dangerous goods.

Transportation of Dangerous Goods (TDG - Canada)

Basic shipping requirements:

UN number

Proper shipping name

Hazard class
Packing group
Special provisions

Packaging exceptions

Exemption 1.33

15. Regulatory Information

Canadian federal regulations This product has been classified in accordance with the hazard criteria of the Controlled Products

Regulations and the SDS contains all the information required by the Controlled Products

Regulations.

WHMIS status

WHMIS classification

WHMIS labeling

Controlled

Class B - Division 2 - Combustible Liquid, Class D - Division 2B





16. Other Information

LEGEND	
Severe	4
Serious	3
Moderate Slight	2 1
Minimal	0

HEALTH	1
FLAMMABILITY	2
PHYSICAL HAZARD	0
PERSONAL PROTECTION	В



Disclaimer

The data contained in this material safety data sheet was obtained from sources that were technically accurate, reliable, and state of the art when this document was prepared. If data was unavailable to complete certain sections, the absence of that data is identified in this document. Because the supplier cannot know the exact circumstances during actual use of this product, other hazards, exposure scenarios, disposal considerations, and regulations may apply and it is the responsibility of the user to read and understand the product label and this document before use. Do not use the product for purposes other than those stated in Section 1.

Issue date
Effective date

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Version 1.0

Further information

For an updated SDS, please contact the supplier/manufacturer listed on the first page of the document.

Prepared by

Unica Canada inc.. Phone: (450) 655-8168

Other information

This Safety Data Sheet was prepared to comply with the current OSHA Hazard Communication Standard (HCS) adoption of the Globally Harmonized System of Classification and Labeling of

Chemicals (GHS).