SAFETY DATA SHEET

1. Product and Company Identification

TOTAL K.O.-DETERGENT FOR AUTOMATIC TRUCK WASHERS **Product identifier**

Other means of identification

Not available

Recommended use Recommended restrictions Vehicule cleaner without brushing

Manufacturer

D.L. INDUSTRIAL SUPPLIES

ONTARIO, KOA 1M0

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

www.totalko.ca

None known.

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

2. Hazards Identification

GHS classification in accordance with: (CAN) WHMIS 2015

Physical hazards Corrosive to metals Category 1 **Health hazards** Eye damage/irritation Category 1 Skin corrosion/irritation Category 1

Environmental hazards Not classified. **OSHA** defined hazards Not classified.

Label elements

Signal word

Danger

Hazard statement May be corrosive to metals

Causes severe skin burns and eye damage.

Precautionary statement

Prevention

Do not breathe dust/fumes/gas/mist/vapours/spray. Wash hands thoroughly after handling. Wear

protective gloves/protective clothing/eye protection/face protection.

Response IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/

shower.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present

and easy to do - continue rinsing. Immediately call a POISON CENTER/doctor.

Specific treatment (see this label). Wash contaminated clothing before reuse. Absorb spillage to

prevent material damage.

Storage Keep only in original container. Store locked up. Store in a corrosive resistant container or a

container with resistant inner liner.

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

Hazard(s) not otherwise classified (HNOC)

None known.

Supplemental information

None

3. Composition/Information on Ingredients

Mixture			
Chemical name	Common name and synonyms	CAS number	%
Sodium Silicate		6834-92-0	1 - 5
2-Butoxyethanol		111-76-2	1 - 5
3-Butoxypropan-2-ol		5131-66-8	1 - 5

	4. First Aid Measures		
nhalation	If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center/doctor/.		
Skin contact	If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/show Wash contaminated clothing before reuse. Specific treatment (see product label). Immediately capoison center/doctor/.		
Eye contact	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor.		
ngestion Most important symptoms/effects, acute and	If swallowed: Rinse mouth. Do NOT induce vomiting. Immediately call a poison center/doctor/. Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.		
delayed Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Symptoms may be delayed.		
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. Avoid contact with eyes and skin. Wear rubber gloves and chemical splash goggles. Keep out of reach of children.		
	5. Fire Fighting Measures		
Suitable extinguishing media	Treat for surrounding material.		
Unsuitable extinguishing media	Use appropriate extinguisher, as surrounding material.		
Specific hazards arising from the chemical	Firefighters should wear a self-contained breathing apparatus.		
Special protective equipment and precautions for	Firefighters should wear full protective clothing including self contained breathing apparatus.		
irefighters Fire-fighting equipment/instructions	Move containers from fire area if you can do so without risk.		
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.		
Hazardous combustion products	May include and are not limited to: Carbon oxide, nitrogen oxide		
Explosion data Sensitivity to mechanical impact	Not available.		
Sensitivity to static discharge	Not available.		
	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. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.		
Methods and materials for	Should not be released into the environment.		
containment and cleaning up	Large Spills: Stop leak if you can do so without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb spillage to prevent material damage. Absorb in vermiculite, dry sand or earth and place into containers. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water		
	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills to original containers for re-use.		
Environmental precautions	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS Prevent entry into waterways, sewers, basements or confined areas. Avoid discharge into drains, water courses or onto the ground. Do not discharge into lakes, streams, ponds or public waters.		
	7. Handling and Storage		
Precautions for safe handling	Use only with adequate ventilation. Avoid prolonged exposure. Wear appropriate personal protective equipment. Wash thoroughly after handling. Use good industrial hygiene practices in handling this material. Avoid breathing vapors or mists of this product. DO NOT get in eyes, on skin or clothing.		

Conditions for safe storage, including any incompatibilities

Store locked up. Store in corrosive resistant container with a resistant inner liner. Keep only in the original container. Store in a cool, dry place out of direct sunlight. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure Controls/Personal Protection

Occupational exposure limits

Components Value

Exposition limit: 2mg/m³ (15 min TWA) Sodium silicate

2-Butoxyethanol TWA: Maximum concentration: 20 ppm ACGIH

3-Butoxypropan-2-ol TWA: 50 ppm

Biological limit values Appropriate engineering

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

controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

Eye/face protection

Chemical splash goggles.

Skin protection

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

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

Respiratory protection

Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.

Thermal hazards Not applicable.

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 Clear Physical state Liquid. **Form** Liquid Color Green Odor Sweet

Odor threshold Not available.

> 13.0 pН 0°C Melting point/freezing point Initial boiling point and boiling

100 °C

Pour point Partition coefficient

range

Not available.

(n-octanol/water)

Not available

> 94°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

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure Not available

Vapor density Not available

Relative density 1.11 – 1.13

Solubility(ies) Complete

Auto-ignition temperature Not available

Decomposition temperature Not available.

Viscosity Not available.

10. Stability and Reactivity

Reactivity Strong acids. This product may react with oxidizing agents.

Possibility of hazardous

reactions

Hazardous polymerization does not occur.

Chemical stability Stable under recommended storage conditions.

Conditions to avoid Reacts with strong acids. This product may react with oxidizing agents.

Incompatible materials Oxidizing agents. Acids.

Hazardous decomposition

products

May include and are not limited to: Carbon oxide, nitrogen oxide

11. Toxicological Information

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

Information on likely routes of exposure

Ingestion Causes digestive tract burns.

Inhalation Prolonged inhalation may be harmful.

Skin contact Causes severe skin burns.

Eye contact Causes serious eye damage.

Symptoms related to the physical, chemical and

physical, chemical and toxicological characteristics

Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including

blindness could result.

Information on toxicological effects

Acute toxicity

Components Sodium silicate	Species Test Results	
Acute Dermal LD50 Inhalation LC50 Oral	Rat Rat Rat	> 5000 mg/kg >2.06 g/m³ (4Heures) 3400 mg/kg
2-Butoxyethanol	Nat	3400 mg/kg
Acute		
Oral LD50 Dermal LD50	Rat Rat	1300 mg/kg > 2000 mg/kg
3-Butoxypropan-2-ol	Nat	> 2000 Hig/kg
Acute Oral LD50 Oral LD50 Skin absoption LD50	Rat (female) Rat (male) Rat	2124 – 2700 mg/kg 2612 – 5500 mg/kg > 2000 mg/kg

Skin corrosion/irritation Causes severe skin burns and eye damage.

Exposure minutes Not available.

Erythema value Not available.

Oedema value Not available.

Serious eye damage/eye

irritation

Causes serious eye damage.

Corneal opacity value

Iris lesion value

Conjunctival reddening
value

Not available.

Not available.

Respiratory or skin sensitization

Respiratory sensitization Not available.

Skin sensitization This product is not expected to cause skin sensitization.

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

Carcinogenicity None

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

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard Not available.

Chronic effects Prolonged inhalation may be harmful.

Further information Not available.

Name of Toxicologically Not available.

Synergistic Products

Componente

12. Ecological Information

Ecotoxicity

Components	Species	rest Results
Sodium silicate	Fish (Brachydanio rerio) LC50 (96 hours)	1108 mg/l
	Aquatic invertebrates (Daphnia magna) EC50(48 hour)	1700 mg/l
2-Butoxyethanol	LC50 Fish (Rainbow Trout) (96 hours)	1474 mg/l
	EC50 Daphnia magna (48 hours) EC50 Algae (72 hours)	1550 mg/l 1840 mg/l
3-Butoxypropan-2-ol	LC 50 Fish Guppy (Poecillia Reticulata) (96 h)	560 – 1000 mg/l

Species

Persistence and degradability
Bioaccumulative potential
Mobility in soil

Biodegradable
No data available
No data 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

Toot Doculto

> 1000 mg/kg

this component.

LC 50 (Daphnia Magna)

13. Disposal Consideration

Disposal instructionsCollect 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

Contaminated packaging

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).

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

Since emplied containers may retain product residue, follow label warnings even after container is

emptied.

14. Transport Information

General Canada: TDG Proof of Classification: In accordance with Part 2.2.1 (SOR/2014-152) of the

Transportation of Dangerous Goods Regulations, we certify that the classification of this product is correct as of the SDS date of issue. If applicable, the technical name and the classification of the

product will appear below.

U.S. Department of Transportation (DOT)

Basic shipping requirements:

UN number

Proper shipping name Corrosive liquids, n.o.s. (Sodium silicate)

Hazard class Packing group Ш



Transportation of Dangerous Goods (TDG - Canada)

Basic shipping requirements:

UN number UN1760

Proper shipping name CORROSIVE LIQUID, N.O.S. (Sodium silicate)

Hazard class Packing group Ш



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.

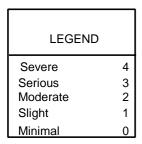
WHMIS status Controlled

WHMIS classification Class E - Corrosive Material

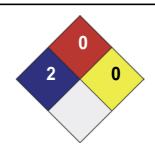
WHMIS labeling



16. Other Information







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 February 20, 2018 **Effective date** February 20, 2018

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 Number: (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).