# SAFETY DATA SHEET

# 1. Product and Company Identification

Product identifier TOTAL K.O.-ALUMINIUM CLEANER

Other means of identification Not available
Recommended use Metals Cleaner
Recommended restrictions None known.

Manufacturer D.L. INDUSTRIAL SUPPLIES

ONTARIO, KOA 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

# GHS classification in accordance with (CAN) WHMIS 2015

Physical HazardsCorrosive to metalsCategory 1Health hazardsAcute toxicity, inhalationCategory 4Acute toxicity, oralCategory 4Eye damage/irritationCategory 1Skin corrosion/irritationCategory 1

Environmental hazards Not classified.

OSHA defined hazards Not classified.

Label elements





Signal word

Danger

Hazard statement May be corrosive to metals

Harmful if swallowed

Causes severe skin burns and eye damage

Harmful if inhaled

**Precautionary statement** 

Prevention

Do not breathe dust/fume/gas/mist/vapours/spray. Avoid breathing

dust/fumes/gas/mist/vapours/spray. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective

gloves/protective clothing/eye protection/face protection.

Response IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell, 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. call a POISON CENTER/doctor. call a POISON CENTER/doctor

if you feel unwell.

Specific treatment (see this label). Rinse mouth. 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.

# 3. Composition/Information on Ingredients

 Mixture
 Chemical name
 Common name and synonyms
 CAS number
 %

 Phosphoric Acid
 7664-38-2
 15 - 40

 Ammonium Bifluoride
 1341-49-7
 1 - 5

#### 4. First Aid Measures

Inhalation 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/shower.

Wash contaminated clothing before reuse. Specific treatment (see product label). Immediately call a

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

poison center/doctor/.

blindness could result.

If in eves: Rinse cautiously with water for several minutes, Remove contact lenses, if present and Eye contact

easy to do. Continue rinsing. Immediately call a poison center/doctor.

Ingestion Most important

**General information** 

symptoms/effects, acute and

delayed

Indication of immediate medical attention and special

treatment needed

Provide general supportive measures and treat symptomatically. Symptoms may be delayed.

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

Unsuitable extinguishing media

Specific hazards arising from

the chemical

Special protective equipment and precautions for

firefighters Fire-fighting equipment/instructions

Specific methods Hazardous combustion

products

**Explosion data** 

Sensitivity to mechanical impact

Sensitivity to static discharge

Treat for surrounding material.

Use appropriate extinguisher, as surrounding material.

Firefighters should wear a self-contained breathing apparatus.

Firefighters should wear full protective clothing including self contained breathing apparatus.

Move containers from fire area if you can do so without risk.

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

May include and are not limited to: Hydrofluoric acid, carbon oxide, acid vapours.

Not available.

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 containment and cleaning up Should not be released into the environment.

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.

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.

**Environmental precautions** 

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

Phosphoric acid VEMP: 1 mg/m3 (8 h) VECD: 3 mg/m<sup>3</sup> (15 h)

Hydrofluoric acid (insitu) VECD: 3 ppm (F) (15 minutes)

Biological limit values Appropriate engineering

controls

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

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

Skin protection

Chemical splash goggles.

Hand protection

Respiratory 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.

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 Clear
Physical state Liquid.
Form Liquid
Color Clear
Odor Nothing
Odor threshold Not available.

**pH** 1.0

Melting point/freezing point
Initial boiling point and boiling

range

Not available.

Not available

Pour pointNot available.Specific gravityNot availablePartition coefficientNot available

(n-octanol/water)

Flash point > 94 °C

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

Solubility(ies)

Auto-ignition temperature

Decomposition temperature

Viscosity

Not available.

Not available.

10. Stability and Reactivity

**Reactivity** Strong Alkaline products. This product may react with oxidizing agents.

Possibility of hazardous

reactions

Hazardous polymerization does not occur.

Chemical stability
Conditions to avoid

Stable under recommended storage conditions.

Incompatible materials

Oxidizing agents. Alkalines products

Hazardous decomposition

May include and are not limited to: Hydrofluoric acid, carbon oxide, acid vapours.

Reacts violently with strong bases. This product may react with oxidizing agents.

products

# 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 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 Species Test Results

Phosphoric acid

Acute

Dermal LD50Rabbit2740 mg/kgInhalation LC50Rat7 mg/L (4Hours)OralRat1530 mg/kg

Ammonium Bifluoride

Acute

Oral LD50 Rat 130 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 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** This product is not expected to cause skin sensitization.

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

**Carcinogenicity** None

**Reproductive toxicity**Non-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

# 12. Ecological Information

**Ecotoxicity**Because of the very low pH of this product, it would be expected to produce significant ecotoxicity

upon exposure to aquatic organisms and aquatic systems. See below

Components Species Test Results

Phosphoric acid Daphnie – Daphnia magna (48 hours) Acute CE50 : 105 ppm Soft water

Fish (96 hours) Acute CL50: 138 mg/l

Fish- Lepomis macrochirus Acute CL50: 60 ppm Soft water

Hydrofluoric acid (insitu) LC50 Fish (Leuciscus idus) ( 48 hours ) 660 mg/l

EC50 Daphnia magna (48 hours) 270 mg/l

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

this component.

#### 13. Disposal Considerations

**Disposal instructions**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

Dispose in accordance with all applicable regulations.

Hazardous waste code

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

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 UN1760

Proper shipping name Corrosive liquids, n.o.s. (Phosphoric acid)

Hazard class 8
Packing group III

#### Transportation of Dangerous Goods (TDG - Canada)

**Basic shipping requirements:** 

UN number UN1760

Proper shipping name CORROSIVE LIQUID, N.O.S. (Phosphoric acid)

Hazard class 8
Packing group III



# 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

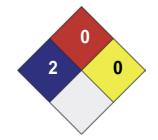
WHMIS labeling



#### 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.

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Version 2.0

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).