Aluminum Transmission & Engine Cleaner
Safety Data Sheet

SECTION 1: Product and company identification

Product name	:	Aluminum Transmission & Engine Cleaner
Use of the substance/mixture	:	Cleaner
Product code	:	0663
Company	:	Total Solutions P.O. Box 240014 Milwaukee, WI 53224 - USA T (414) 354-6417
Emergency number	:	Chemtrec: (800) 424-9300

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification

Skin Corr. 1 H314

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US) :

GHS05

Signal word (GHS-US)	:	Danger
Hazard statements (GHS-US)	:	Causes severe skin burns and eye damage
Precautionary statements (GHS-US)	:	Do not breathe dust. Wash thoroughly after handling Wear eye protection, protective clothing, protective gloves. 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 doctor, a POISON CENTER Specific treatment (see First aid measures on this label) Wash contaminated clothing before reuse. Store locked up. Dispose of contents/container to comply with local/regional/national/international regulations.

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

Full text of H-phrases: see section 16

3.2. Mixtures

Name	Product identifier	%	GHS-US classification
sodium carbonate	(CAS-No.) 497-19-8	45-55	Eye Irrit. 2, H319
disodium metasilicate	(CAS-No.) 6834-92-0	10-20	Skin Corr. 1B, H314 STOT SE 3, H335
Disodium ethylenediaminetetraacetate	(CAS-No.) 139-33-3	1-5	Acute Tox. 4 (Inhalation:dust,mist), H332
troclosene sodium, dihydrate	(CAS-No.) 51580-86-0	1-5	Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Inhalation:dust,mist), H331 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335

A specific chemical identity and/or percentage of composition has been withheld as a trade secret. Any concentration shown as a range is to protect confidentiality or is due to batch variation.

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.

First-aid measures after skin contact : Take off immediately all contaminated clothing and wash it before reuse. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor/physician.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Get medical advice/attention if you feel unwell.

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

Symptoms/effects : Causes severe skin burns and eye damage.

Symptoms/effects after inhalation : May cause respiratory irritation.

Symptoms/effects after skin contact : Caustic burns/corrosion of the skin.

Symptoms/effects after eye contact : Causes serious eye damage. Corrosion of the eye tissue. Permanent eye damage.

Symptoms/effects after ingestion : May be harmful if swallowed. Gastrointestinal complaints. Burns to the gastric/intestinal mucosa.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Adapt extinguishing media to the environment.

5.2. Special hazards arising from the substance or mixture

Reactivity : Powder may produce chlorine gas when wet. Upon combustion: CO and CO2 are formed. If the product is involved in a fire, it can release toxic chlorine gases.

5.3. Advice for firefighters

Firefighting instructions : Exercise caution when fighting any chemical fire. Use water spray or fog for cooling exposed containers. Take account of environmentally hazardous firefighting water.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Isolate from fire, if possible, without unnecessary risk.

6.1.1. For non-emergency personnel

Protective equipment : Protective goggles. Gloves. Protective clothing.

Emergency procedures : Evacuate unnecessary personnel. Avoid contact with skin, eyes and clothing. Ventilate spillage area.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Stop leak if safe to do so. Stop release. Ventilate area.

6.2. Environmental precautions

Avoid release to the environment. Prevent soil and water pollution.

6.3. Methods and material for containment and cleaning up

For containment : Contain released product, pump into suitable containers.

Methods for cleaning up : Absorb spillage to prevent material-damage. This material and its container must be disposed of in a safe way, and as per local legislation.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Comply with the legal requirements. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Do not eat, drink or smoke when using this product. Do not get in eyes, on skin, or on clothing. Handle and open the container with care.

Hygiene measures : Wash thoroughly after handling. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Comply with applicable regulations.

Storage conditions : Store in corrosive resistant container with a resistant inner liner. Keep container closed when not in use.

Incompatible products : Acids. reducing agents.

Storage area	:	Keep only in the original container. Store in a dry area. Store in a cool area.
Special rules on packaging	:	meet the legal requirements. Keep only in original container.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

troclosene sodium, dihydrate (51580-86-0)

Not applicable

sodium carbonate (497-19-8)

Not applicable

Disodium ethylenediaminetetraacetate (139-33-3)

Not applicable

disodium metasilicate (6834-92-0)

Not applicable

8.2. Exposure controls

Personal protective equipment : Use appropriate personal protective equipment when risk assessment indicates this is necessary. Safety glasses. Gloves. Protective clothing.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	:	Solid
Appearance	:	White. free flowing. Powder.
Odor	:	mild chlorine-like
Odor threshold	:	No data available
pH	:	10.5 - 13 1% solution
Melting point	:	No data available
Freezing point	:	No data available
Boiling point	:	No data available
Flash point	:	No data available
Relative evaporation rate (butyl acetate=1)	:	No data available
Flammability (solid, gas)	:	No data available
Explosion limits	:	No data available
Explosive properties	:	No data available
Oxidizing properties	:	No data available
Vapor pressure	:	No data available
Relative density	:	No data available
Relative vapor density at 20 °C	:	No data available
Solubility	:	Soluble in water
Log Pow	:	No data available
Log Kow	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity	:	No data available
Viscosity, kinematic	:	No data available
Viscosity, dynamic	:	No data available
VOC content	:	0 %

SECTION 10: Stability and reactivity

10.1. Reactivity

Powder may produce chlorine gas when wet. Upon combustion: CO and CO2 are formed. If the product is involved in a fire, it can release toxic chlorine gases.

10.2. Chemical stability
Stable under normal conditions.

10.3. Possibility of hazardous reactions
Refer to section 10.1 on Reactivity.

10.4. Conditions to avoid
No additional information available

10.5. Incompatible materials
No additional information available

10.6. Hazardous decomposition products
Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

troclosene sodium, dihydrate (51580-86-0)	
LD50 oral rat	1671 mg/kg body weight (EPA OPP 81-1: Acute Oral Toxicity, Rat, Male/female, Experimental value)
LD50 dermal rat	> 5000 mg/kg (EPA OPP 81-2, Rat, Male/female, Experimental value)
LC50 inhalation rat (mg/l)	0.27 - 1.17 mg/l (Equivalent or similar to OECD 403, 4 h, Rat, Male/female, Experimental value)
ATE CLP (oral)	1671 mg/kg body weight
ATE CLP (vapors)	0.27 mg/l/4h
ATE CLP (dust, mist)	0.27 mg/l/4h

sodium carbonate (497-19-8)	
LD50 oral rat	2800 mg/kg (Rat, Male/female, Experimental value)
LD50 dermal rabbit	> 2000 mg/kg (16 CFR 1500. 40, 24 h, Rabbit, Experimental value)
LC50 inhalation rat (mg/l)	(2 h, Rat, Male, Experimental value)
ATE CLP (oral)	2800 mg/kg body weight
ATE CLP (vapors)	2.3 mg/l/4h
ATE CLP (dust, mist)	2.3 mg/l/4h

Skin corrosion/irritation : Causes severe skin burns and eye damage.
pH: 10.5 - 13 1% solution

Serious eye damage/irritation : Not classified
pH: 10.5 - 13 1% solution

Respiratory or skin sensitization : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Specific target organ toxicity – single exposure : Not classified

Specific target organ toxicity – repeated exposure : Not classified

Aspiration hazard : Not classified

Symptoms/effects after inhalation : May cause respiratory irritation.

Symptoms/effects after skin contact : Caustic burns/corrosion of the skin.

Symptoms/effects after eye contact : Causes serious eye damage. Corrosion of the eye tissue. Permanent eye damage.

Symptoms/effects after ingestion : May be harmful if swallowed. Gastrointestinal complaints. Burns to the gastric/intestinal mucosa.

Likely routes of exposure : Skin and eye contact

SECTION 12: Ecological information

12.1. Toxicity

troclosene sodium, dihydrate (51580-86-0)	
LC50 fish 1	0.24 mg/l (EPA OTS 797.1400, 96 h, Oncorhynchus mykiss, Static system, Fresh water, Read-across)
EC50 Daphnia 1	0.17 mg/l (ASTM, 48 h, Daphnia magna, Static system, Fresh water, Read-across)
ErC50 (algae)	> 100 mg/l (ISO 10253, 72 h, Skeletonema costatum, Static system, Experimental value)

sodium carbonate (497-19-8)	
LC50 fish 1	300 mg/l (Other, 96 h, Lepomis macrochirus, Static system, Fresh water, Experimental value)

sodium carbonate (497-19-8)	
EC50 Daphnia 1	200 - 227 mg/l (Other, 48 h, Ceriodaphnia sp., Semi-static system, Fresh water, Experimental value)

12.2. Persistence and degradability

troclosene sodium, dihydrate (51580-86-0)	
Persistence and degradability	Readily biodegradable in the soil. Biodegradable in the soil under anaerobic conditions. Not readily biodegradable in water.
Chemical oxygen demand (COD)	0.01 g O_2/g substance

sodium carbonate (497-19-8)	
Persistence and degradability	Biodegradability: not applicable.
Biochemical oxygen demand (BOD)	Not applicable (inorganic)
Chemical oxygen demand (COD)	Not applicable (inorganic)
ThOD	Not applicable (inorganic)

12.3. Bioaccumulative potential

troclosene sodium, dihydrate (51580-86-0)	
Log Pow	-0.0556 (Anhydrous form, QSAR, KOWWIN)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

sodium carbonate (497-19-8)	
Log Pow	-6.19 (Estimated value)
Bioaccumulative potential	Not bioaccumulative.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

SECTION 14: Transport information

Department of Transportation (DOT)

Transport document description : UN3262 Corrosive solid, basic, inorganic, n.o.s., 8, III
UN-No.(DOT) : UN3262
Proper Shipping Name (DOT) : Corrosive solid, basic, inorganic, n.o.s.
Class (DOT) : 8 - Class 8 - Corrosive material 49 CFR 173.136
Hazard labels (DOT) : 8 - Corrosive

Packing group (DOT) : III - Minor Danger
DOT Packaging Non Bulk (49 CFR 173.xxx) : 213
DOT Packaging Bulk (49 CFR 173.xxx) : 240
DOT Symbols : G - Identifies PSN requiring a technical name
DOT Special Provisions (49 CFR 172.102) : IB8,IP3,T1,TP33
DOT Packaging Exceptions (49 CFR 173.xxx) : 154
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : 25 kg
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 100 kg
DOT Vessel Stowage Location : A
DOT Vessel Stowage Other : 52 - Stow ‘‘separated from’’ acids

Additional information

Other information : No supplementary information available.

ADR

No additional information available

Transport by sea

No additional information available

Air transport

No additional information available

SECTION 15: Regulatory information

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

⚠ WARNING This product can expose you to ethylene oxide, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

SECTION 16: Other information

Training advice : Normal use of this product shall imply use in accordance with the instructions on the packaging.

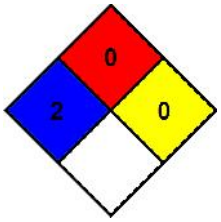
Full text of H-phrases:

H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation
H331	Toxic if inhaled
H332	Harmful if inhaled
H335	May cause respiratory irritation

NFPA health hazard : 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.

NFPA fire hazard : 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.

NFPA reactivity : 0 - Material that in themselves are normally stable, even under fire conditions.



Prepared by: Technical Department

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