Safety Data Sheet



## **SECTION 1: Product and company identification**

Product name : Stainless Steel Cleaner – Aerosol

Use of the substance/mixture : Cleaner Product code : 8306

Company : Total Solutions P.O. Box 240014

Milwaukee, WI 53224 - USA

T (414) 354-6417

Emergency number : Chemtec: (800) 424-9300

### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

### Classification (GHS-US)

Flam. Aerosol 1 H222 Eye Irrit. 2A H319 STOT SE 3 H336 Asp. Tox. 1 H304

Full text of H-phrases: see section 16

#### 2.2. Label elements

### **GHS-US** labeling

Hazard pictograms (GHS-US)





GHS07

GHS08

Signal word (GHS-US) : Danger

Hazard statements (GHS-US) : Extremely flammable aerosol

May be fatal if swallowed and enters airways

Causes serious eye irritation May cause drowsiness or dizziness

Precautionary statements (GHS-US)

: Keep away from heat, hot surfaces, open flames, sparks. - No smoking

Do not spray on an open flame or other ignition source Pressurized container: Do not pierce or burn, even after use

Avoid breathing gas

Wash thoroughly after handling

Use only outdoors or in a well-ventilated area

Wear eye protection, face protection

If swallowed: Immediately call a doctor, a POISON CENTER

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 doctor, a POISON CENTER if you feel unwell Do NOT induce vomiting

If eye irritation persists: Get medical advice/attention

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

Store locked up

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F

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. Substance

Not applicable

Full text of H-phrases: see section 16

#### 3.2. Mixture

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Name	Product identifier	%	Classification (GHS-US)
hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics	(CAS No) 64742-47-8	20 - 40	Flam. Liq. 4, H227 Asp. Tox. 1, H304
white mineral oil (petroleum)	(CAS No) 8042-47-5	20 - 40	Asp. Tox. 1, H304
acetone, propan-2-one, propanone	(CAS No) 67-64-1	10 - 20	Flam. Liq. 2, H225 Eye Irrit. 2A, H319 STOT SE 3, H336
propane	(CAS No) 74-98-6	10 - 20	Flam. Gas 1, H220 Compressed gas, H280
methyl acetate	(CAS No) 79-20-9	2.5 - 10	Flam. Liq. 2, H225 Eye Irrit. 2A, H319 STOT SE 3, H336
methanol	(CAS No) 67-56-1	0.1 - 1	Flam. Liq. 2, H225 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 STOT SE 1, H370
acetaldehyde, ethanal	(CAS No) 75-07-0	0.01 - 0.1	Carc. 1A, H350

#### **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). Ensure that medical

personnel are aware of the material(s) involved, and take precautions to protect themselves.

First-aid measures after inhalation : Remove the victim into fresh air. Artificial respiration and/or oxygen if necessary. Call a poison

center or a doctor if you feel unwell.

First-aid measures after skin contact : Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.

First-aid measures after eye contact : Rinse immediately with plenty of water. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : Rinse mouth. Get medical advice/attention.

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

Symptoms/injuries : Causes serious eye irritation. May cause drowsiness or dizziness. Headache. nausea, vomiting. May

be fatal if swallowed and enters airways.

Symptoms/injuries after inhalation : May cause drowsiness or dizziness. Headache. Nausea. Vomiting.

Symptoms/injuries after skin contact : Contact during a long period may cause light irritation. Symptoms/injuries after eye contact : Causes serious eye irritation. Redness of the eye tissue.

Symptoms/injuries after ingestion : Swallowing the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis.

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

Treat symptomatically. Keep watching the victim. Symptoms may be delayed.

## **SECTION 5: Firefighting measures**

## 5.1. Extinguishing media

Suitable extinguishing media : Alcohol-resistant foam. Dry chemical powder. Carbon dioxide.

Unsuitable extinguishing media : Do not use a water jet since it may cause the fire to spread.

## 5.2. Special hazards arising from the substance or mixture

Fire hazard : Extremely flammable aerosol.

Explosion hazard : Contains gas under pressure; may explode if heated.

Reactivity : The product is non-reactive under normal conditions of use, storage and transport.

## 5.3. Advice for firefighters

Firefighting instructions : Exercise caution when fighting any chemical fire. Move containers away from the fire area if this can

be done without risk. Use water spray or fog for cooling exposed containers. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire

burn out.

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 : No flames, No sparks. Eliminate all sources of ignition. Evacuate unnecessary personnel. Stay

upwind/keep distance from source. Gas is denser than air. May accumulate in low areas e.g. close to the ground.

6.1.1. For non-emergency personnel

Protective equipment : Do not enter without an appropriate protective equipment.

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

spillage area. DO NOT touch spilled material. Do not breathe gas. Advice local authorities if

considered necessary.

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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

Do not allow to enter drains or water courses. Prevent soil and water pollution. Avoid release to the environment. Stop leak if safe to do so. Advice local authorities if considered necessary.

authorities il considered fiecessary.

6.3. Methods and material for containment and cleaning up

For containment : Keep combustibles (wood, paper, oil, etc.) away from spilled material. Eliminate every possible

source of ignition. Stop leak if safe to do so. Move the cylinder to a safe and open area if the leak is

irreparable. Prevent the product from entering drains or confined areas.

Methods for cleaning up : Take up liquid spill into inert absorbent material. Following product recovery, flush area with water.

## 6.4. Reference to other sections

No additional information available

## **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Additional hazards when processed : Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or

defective

Precautions for safe handling : Do not handle until all safety precautions have been read and understood. Do not spray on a naked

flame or any incandescent material. Do not smoke while handling product. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. Use only non-sparking tools. Use only explosion-free electrical equipment with earth. Avoid contact with eyes. Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work. Observe normal hygiene standards. Do not re-use empty containers. Avoid breathing gas. Avoid prolonged and repeated contact with skin. Use only outdoors or in a well-

ventilated area. Use personal protective equipment as required.

Hygiene measures : Wash contaminated clothing before reuse. Use good personal hygiene practices.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Pressurized container. Do not puncture, incinerate or crush. Keep away from heat, hot surfaces,

sparks, open flames and other ignition sources. No smoking.

Storage conditions : Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

Store in a well-ventilated place. Refrigerate.

Incompatible products : Refer to Section 10 on Incompatible Materials.

Storage area : Aerosol 3.

Special rules on packaging : meet the legal requirements.

## **SECTION 8: Exposure controls/personal protection**

## 8.1. Control parameters

white mineral oil (petroleum) (8042-47-5)			
ACGIH	ACGIH TWA (mg/m³)	5 mg/m³	
acetone, propan-2-	one, propanone (67-64-1)		
ACGIH	ACGIH TWA (ppm)	250 ppm	
ACGIH	ACGIH STEL (ppm)	500 ppm	
ACGIH	Remark (ACGIH)	eye irr; CNS impair; BEI	
propane (74-98-6)			
ACGIH	ACGIH TWA (ppm)	1000 ppm	
OSHA	OSHA PEL (TWA) (ppm)	1000 ppm	
methyl acetate (79-20-9)			
ACGIH	ACGIH TWA (ppm)	200 ppm	
ACGIH	ACGIH STEL (ppm)	250 ppm	
ACGIH	Remark (ACGIH)	eye & URT irr	
methanol (67-56-1)			
ACGIH	ACGIH TWA (ppm)	200 ppm	
ACGIH	ACGIH STEL (ppm)	250 ppm	
ACGIH	Remark (ACGIH)	Headache; eye dam; dizziness; nausea	

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acetaldehyde, ethanal (75-07-0)		
ACGIH	ACGIH Ceiling (ppm)	25 ppm
ACGIH	Remark (ACGIH)	Eye & URT irr; A2

#### **Exposure controls**

Appropriate engineering controls

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. . Ensure good ventilation of the work station. If exposure limits have not been established, maintain airborne levels to an acceptable level. . Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Personal protective equipment

Gloves. Protective clothing. Protective goggles. Use appropriate personal protective equipment

when risk assessment indicates this is necessary.



Gloves.





Hand protection

Eye protection Chemical goggles or safety glasses.

Skin and body protection Protective clothing.

Respiratory protection If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-

supplied respirator.

Thermal hazard protection Use appropriate personal protective equipment when risk assessment indicates this is necessary.

Consumer exposure controls When using do not smoke. Use good personal hygiene practices. Wash hands and other exposed

areas with mild soap and water before eat, drink or smoke and when leaving work. Take off

contaminated clothing and wash before reuse.

### **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

Physical state : Liquid

Clear to light yellow. Aerosol. Appearance

Citrus scent Odor Odor threshold No data available рΗ No data available : No data available Melting point Freezing point No data available Boiling point 62.94 °F estimated

Flash point -156 °F Propellant estimated

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 : No data available Relative density Relative vapor density at 20 °C No data available

Specific gravity / density 0.765 - 0.865 g/ml estimated

Solubility No data available Log Pow No data available Log Kow No data available 310.14 °C estimated Auto-ignition temperature Decomposition temperature No data available · No data available Viscosity

Viscosity, kinematic < 20 cSt

Viscosity, dynamic : No data available

## **SECTION 10: Stability and reactivity**

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## 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use. Hazardous polymerization does not occur.

#### 10.4. Conditions to avoid

Aerosol containers are unstable at temperatures above 49°C. Avoid temperatures exceeding the flash point. Incompatible materials.

### 10.5. Incompatible materials

acids. Strong oxidizing agents. Nitrates.

#### 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

hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics (64742-47-8)		
LD50 dermal rabbit	> 5000 mg/kg body weight (Rabbit; Literature)	
white mineral oil (petroleum) (8042-47-5)		
LD50 oral rat	> 5000 mg/kg body weight (Rat; Equivalent or similar to OECD 401; Experimental value)	
LD50 dermal rabbit	> 2000 mg/kg body weight (Rabbit; Experimental value; Equivalent or similar to OECD 402)	
LC50 inhalation rat (mg/l)	> 5 mg/l/4h (Rat; Experimental value)	
methanol (67-56-1)		
LD50 dermal rabbit	12800 mg/kg	
ATE CLP (oral)	100.000 mg/kg body weight	
ATE CLP (dermal)	300.000 mg/kg body weight	
ATE CLP (gases)	64000.000 ppmV/4h	
ATE CLP (dust, mist)	0.500 mg/l/4h	
Skin corrosion/irritation	Not classified	

Serious eye damage/irritation : Causes serious eye irritation.

Respiratory or skin sensitization : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified.

white mineral oil (petroleum) (8042-47-5)	
IARC group	3 - Not Classifiable
acetaldehyde, ethanal (75-07-0)	
IARC group	2B - Possibly Carcinogenic to Humans, 1 - Carcinogenic to Humans
National Toxicology Program (NTP) Status	3 - Reasonably anticipated to be Human Carcinogen

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : May cause drowsiness or dizziness. Not classified.

Specific target organ toxicity (repeated : Not classified

exposure)

Aspiration hazard : May be fatal if swallowed and enters airways.

Symptoms/injuries after inhalation : May cause drowsiness or dizziness. Headache. Nausea. Vomiting.

Symptoms/injuries after skin contact : Contact during a long period may cause light irritation.

Symptoms/injuries after eye contact : Causes serious eye irritation. Redness of the eye tissue.

Symptoms/injuries after ingestion : Swallowing the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis.

## **SECTION 12: Ecological information**

## 12.1. Toxicity

hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics (64742-47-8)		
LC50 fish 1 > 100 mg/l (Pisces)		
EC50 Daphnia 1 > 100 mg/l (Invertebrata)		

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hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics (64742-47-8)	
Threshold limit algae 1 > 100 mg/l (Algae)	
white mineral oil (petroleum) (8042-47-5)	
LC50 fish 1 > 100 mg/l (96 h; Oncorhynchus mykiss; Nominal concentration)	
Threshold limit algae 1 >= 100 mg/l (72 h; Pseudokirchneriella subcapitata; Growth rate)	

#### 12.2. Persistence and degradability

hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics (64742-47-8)		
Persistence and degradability Readily biodegradable in water. Adsorbs into the soil.		
white mineral oil (petroleum) (8042-47-5)		
Persistence and degradability Not readily biodegradable in water. No (test)data on mobility of the substance available.		

### 12.3. Bioaccumulative potential

hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics (64742-47-8)	
Log Pow 6 - 8.2	
Bioaccumulative potential High potential for bioaccumulation (Log Kow > 5).	
white mineral oil (petroleum) (8042-47-5)	
Bioaccumulative potential	No bioaccumulation data available.

### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Waste treatment methods : Collect and reclaim or dispose in sealed containers at licensed waste disposal site. . Contents under pressure. Do not puncture, incinerate or crush. Dispose of contents/container to comply with

local/regional/national regulations.

Waste disposal recommendations : Dispose of contents/container to comply with local/regional/national regulations.

Additional information Handle unclean empty containers as full ones. This material and its container must be disposed of

in a safe manner. Do not re-use empty containers.

#### **SECTION 14: Transport information**

## **Department of Transportation (DOT)**

Transport hazard class(es) (DOT)

Transport document description : UN1950 Aerosols (flammable, (each not exceeding 1 L capacity)), 2.1

UN-No.(DOT) : UN1950 Proper Shipping Name (DOT) : Aerosols

> flammable, (each not exceeding 1 L capacity) : 2.1 - Class 2.1 - Flammable gas 49 CFR 173.115

Hazard labels (DOT) : 2.1 - Flammable gas



DOT Packaging Non Bulk (49 CFR 173.xxx) : None DOT Packaging Bulk (49 CFR 173.xxx) · None DOT Special Provisions (49 CFR 172.102) : N82 DOT Packaging Exceptions (49 CFR : 306 173.xxx)

**DOT Quantity Limitations Passenger** 

: 75 kg aircraft/rail (49 CFR 173.27)

: 150 kg

DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)

**DOT Vessel Stowage Location** 

: A

**DOT Vessel Stowage Other** 

: 25 - Shade from radiant heat,87 - Stow "separated from" Class 1 (explosives) except Division

14,126 - Segregation same as for Class 9, miscellaneous hazardous materials

**Additional information** 

Other information : This product may be eligible to be shipped as a Limited Quantity or Consumer Commodity ORM-D

utilizing the exception found at 49 CFR 173.306.

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**ADR** 

No additional information available

Transport by sea

UN-No. (IMDG) : UN1950
Proper Shipping Name (IMDG) : Aerosols

Class (IMDG) : 2.1 - Flammable gases

Air transport

UN-No.(IÂTA) : UN1950

Proper Shipping Name (IATA) : Aerosols, flammable
Class (IATA) : 2.1 - Gases : Flammable

## **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

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

methanol	CAS No 67-56-1	0.1 - 1
acetaldehyde, ethanal	CAS No 75-07-0	0.01 - 0.1

acetone, propan-2-one, propanone (67-64-1)		
Not listed on SARA Section 313 (Specific toxic ch	emical listings)	
RQ (Reportable quantity, section 304 of EPA's List of Lists)	5000 lb	
propane (74-98-6)		
Not listed on SARA Section 313 (Specific toxic ch	emical listings)	
methanol (67-56-1)		
Listed on SARA Section 313 (Specific toxic chem	ical listings)	
RQ (Reportable quantity, section 304 of EPA's List of Lists)	5000 lb	
acetaldehyde, ethanal (75-07-0)		
Listed on SARA Section 313 (Specific toxic chemical listings)		
RQ (Reportable quantity, section 304 of EPA's List of Lists)	1000 lb	

California Proposition 65 - This product contains, or may contain, trace quantities of a substance(s) known to the state of California to cause cancer and/or reproductive toxicity.

#### **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:

Acute Tox. 3 (Dermal)	Acute toxicity (dermal) Category 3
Acute Tox. 3 (Inhalation)	Acute toxicity (inhalation) Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral) Category 3
Asp. Tox. 1	Aspiration hazard Category 1
Carc. 1A	Carcinogenicity Category 1A
Compressed gas	Gases under pressure Compressed gas
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Flam. Aerosol 1	Flammable aerosol Category 1
Flam. Gas 1	Flammable gases Category 1
Flam. Liq. 2	Flammable liquids Category 2
Flam. Liq. 4	Flammable liquids Category 4

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STOT SE 1	Specific target organ toxicity (single exposure) Category 1
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H220	Extremely flammable gas
H222	Extremely flammable aerosol
H225	Highly flammable liquid and vapor
H227	Combustible liquid
H280	Contains gas under pressure; may explode if heated
H301	Toxic if swallowed
H304	May be fatal if swallowed and enters airways
H311	Toxic in contact with skin
H319	Causes serious eye irritation
H331	Toxic if inhaled
H336	May cause drowsiness or dizziness
H350	May cause cancer
H370	Causes damage to organs

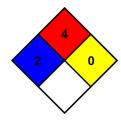
NFPA health hazard : 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury

unless prompt medical attention is given.

NFPA fire hazard : 4 - Will rapidly or completely vaporize at normal pressure and temperature, or is readily dispersed in

air and will burn readily.

NFPA reactivity : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.



## Prepared by: Technical Department

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product. No warranty is expressed or implied regarding the accuracy of this data or the results obtained from the use thereof. Our company assumes no responsibility for personal injury or property damage to the vendee, users or third parties caused by the material. Such vendees or users assume all risks associated with the use of this material.

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