# SAFETY DATA SHEET





## Section 1. Chemical product and company identification

Product name : STAINLESS STEEL CLEANER & POLISH

Recommended use and

restrictions

: Metal Cleaner

Use only for the purpose on the product label.

Product dilution information: Not applicable

**Supplier's information**: Ecolab

201 E. John Carpenter Freeway, Ste. 500

Irving, TX 75062 1-866-999-7484

www.cleanstrikecleaners.com

Code : 900096-05

Date of issue : 30 Oct 2013

EMERGENCY HEALTH INFORMATION: 1-866-897-8061

Outside United States and Canada CALL 1-952-852-4656 (in USA)

### Section 2. Hazards identification

**Product AS SOLD** 

GHS Classification : FLAMMABLE AEROSOLS. - Category 2

GASES UNDER PRESSURE - Compressed

gas

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) [Narcotic effects] -

Category 3

**GHS label elements** 

Signal word : Warning

Symbol







**Hazard statements**: Flammable aerosol.

Contains gas under pressure; may explode if

heated.

May cause drowsiness and dizziness.

**Precautionary statements** 

**Prevention**: Keep away from heat, sparks, open flames and

hot surfaces. - No smoking. Pressurized container: Do not pierce or burn, even after use. Use only outdoors or in a well-ventilated area.

Avoid breathing vapor.

**Response**: IF INHALED: Remove victim to fresh air and

keep at rest in a position comfortable for breathing. Call a POISON CENTER or

physician if you feel unwell.

Storage :

**Product AT USE DILUTION**Product is sold ready to use.

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### Section 2. Hazards identification

Protect from sunlight. Do not expose to

temperatures exceeding 50 °C/122 °F. Store in

a well-ventilated place.

**Disposal** : See section 13 for waste disposal information.

Other hazards : None known.

## Section 3. Composition/information on ingredients

Substance/mixture : Mixture

**Product AS SOLD** 

Hazardous ingredientsConcentration Range (%)CAS numberwhite mineral oil, petroleum5 - 208042-47-5BUTANE5 - 20106-97-8PROPANE1 - 574-98-6solvent naphtha (petroleum), medium aliph.1 - 564742-88-7

**Product AT USE DILUTION** 

Hazardous ingredients Concentration Range (%) CAS number

Product is sold ready to use.

### Section 4. First aid measures

Product AS SOLD

**Eye contact**: No known effect after eye contact. Rinse with

water for a few minutes.

**Skin contact**: No known effect after skin contact. Rinse with

water for a few minutes.

**Inhalation** : Remove victim to fresh air and keep at rest in a

position comfortable for breathing. Get medical

attention if you feel unwell.

**Ingestion**: Get medical attention if symptoms occur.

Protection of first-

aiders

: No action shall be taken involving any personal risk or without suitable training. It may be

**Product AT USE DILUTION** 

Product is sold ready to use.

dangerous to the person providing aid to give mouth-to-mouth resuscitation.

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have

been ingested or inhaled.

See toxicological information (section 11)

# Section 5. Fire-fighting measures

**Product AS SOLD** 

Suitable fire extinguishing

media

....

: Use water spray, fog or foam.

Specific hazards arising from the chemical

: Flammable aerosol. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Gas may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back, causing fire or explosion. Bursting aerosol containers may be propelled from a fire at high speed. Runoff to sewer may create fire or explosion hazard.

Hazardous thermal decomposition products

 Decomposition products may include the following materials: carbon dioxide

carbon monoxide

**Specific fire-fighting** 

methods

:

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## Section 5. Fire-fighting measures

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

### Section 6. Accidental release measures

#### **Product AS SOLD**

Personal precautions Environmental

: Use personal protective equipment as required.

: Avoid contact of large amounts of spilled material and runoff with soil and surface waterways.

Methods for cleaning up

precautions

: Use a water rinse for final clean-up.

#### **Product AT USE DILUTION**

Product is sold ready to use.

# Section 7. Handling and storage

#### **Product AS SOLD**

**Handling** : Store and use away from heat, sparks, open

flame or any other ignition source. Liquid and vapor under pressure. Do not puncture, incinerate or store the container at temperatures above 49°C (120°F) or in direct sunlight. Use only with adequate ventilation. Wash thoroughly

after handling.

**Storage** : Keep out of reach of children. Keep container

tightly closed and sealed until ready for use. Keep container in a cool, well-ventilated area. Avoid all possible sources of ignition (spark or flame). Do not puncture or incinerate container.

Store between the following temperatures: 5 and

45°C

### **Product AT USE DILUTION**

Product is sold ready to use.

# Section 8. Exposure controls/personal protection

#### **Control parameters**

Ingredient name	Exposure limits
white mineral oil, petroleum	ACGIH TLV (United States, 3/2012).
	TWA: 5 mg/m³ 8 hours. Form: Inhalable
	fraction
	NIOSH REL (United States, 6/2009).
	TWA: 5 mg/m³ 10 hours. Form: Mist
	STEL: 10 mg/m³ 15 minutes. Form: Mist
	OSHA PEL (United States, 6/2010).
	TWA: 5 mg/m³ 8 hours.
BUTANE	ACGIH TLV (United States, 3/2012).
	TWA: 1000 ppm 8 hours.
	NIOSH REL (United States, 6/2009).
	TWA: 800 ppm 10 hours.
	TWA: 1900 mg/m³ 10 hours.
PROPANE	ACGIH TLV (United States, 3/2012).
	TWA: 1000 ppm 8 hours.
	OSHA PEL (United States, 6/2010).

solvent naphtha (petroleum), medium aliph.

## Section 8. Exposure controls/personal protection

TWA: 1800 mg/m3 8 hours. TWA: 1000 ppm 8 hours.

NIOSH REL (United States, 6/2009).

TWA: 1000 ppm 10 hours. TWA: 1800 mg/m<sup>3</sup> 10 hours.

TWA: 100 ppm 8 hours. TWA: 400 mg/m<sup>3</sup> 8 hours.

OSHA PEL (United States, 6/2010).

**Product AS SOLD** 

**Appropriate** engineering controls

: Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits.

**Personal protection** 

Eye protection : No protective equipment is needed under normal

use conditions.

: No protective equipment is needed under normal **Hand protection** 

use conditions.

Skin protection : No protective equipment is needed under normal

use conditions.

Respiratory protection

: A respirator is not needed under normal and

intended conditions of product use.

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating,

smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing

before reusing.

## Section 9. Physical and chemical properties

**Product AS SOLD** 

Physical state : Aerosol Color : White Odor : citrus

: Not applicable pН Flash point : Not applicable **Explosion limits** : Lower: 1.8%

Upper: 9.5% : Not available.

Flammability (solid,

gas)

: Not available. : >100°C (>212°F) Evaporation rate : Not available.

(butyl acetate = 1)

**Melting point** 

**Boiling point** 

Vapor pressure : Not available. Vapor density : Not available.

Relative density : 0.894 to 0.951 (Water = 1)

Solubility : Soluble in the following materials: cold water and

hot water.

**Product AT USE DILUTION** 

Product is sold ready to use.

Product AT USE DILUTION Product is sold ready to use.

## Section 9. Physical and chemical properties

Partition coefficient: : Not available.

n-octanol/water

**Auto-ignition** : Not available.

temperature

Decomposition temperature

: Not available.

Odor threshold

: Not available.

Viscosity

: Kinematic (room temperature): 63 cm<sup>2</sup>/s (6300

Kinematic (40°C (104°F)): 63 cm<sup>2</sup>/s (6300 cSt)

Aerosol product

Type of aerosol : Spray Heat of combustion: 6.246 kJ/g **Ignition distance** : 0 cm

Flame height : Not available. Flame duration : Not available.

## Section 10. Stability and reactivity

**Product AS SOLD** 

Stability : The product is stable.

Possibility of hazardous

: Under normal conditions of storage and use, hazardous reactions will not occur.

reactions

Conditions to avoid : Avoid all possible sources of ignition (spark or flame).

Materials to avoid : Highly reactive or incompatible with the following materials: oxidizing materials.

Hazardous decomposition

products

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

## Section 11. Toxicological information

: Skin contact, Eye contact, Inhalation, Ingestion Route of exposure

**Product AS SOLD** 

**Symptoms** 

Eye contact : No specific data. Skin contact : No specific data.

Inhalation : Adverse symptoms may include the following:

respiratory tract irritation

coughing

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness

Ingestion : No specific data.

Acute toxicity

Inhalation

Eye contact : No known significant effects or critical hazards. Skin contact : No known significant effects or critical hazards.

> : Can cause central nervous system (CNS) depression. May cause drowsiness and

dizziness.

Ingestion : Can cause central nervous system (CNS)

depression.

#### Product AT USE DILUTION

Product is sold ready to use.

## **Section 11. Toxicological information**

### **Toxicity data**

butane

Product/ingredient name

white mineral oil, petroleum LC50 Inhalation Rat >5.2 mg/l

**Dusts and mists** 

LD50 Dermal Rabbit >2000 mg/kg LD50 Oral Rat >5000 mg/kg LC50 Inhalation Rat 280000 ppm

Gas.

solvent naphtha (petroleum), medium aliph. LD50 Dermal Rabbit >2000 mg/kg

LD50 Oral Rat >5000 mg/kg

**Chronic toxicity** 

Carcinogenicity : No known significant effects or critical hazards.
 Mutagenicity : No known significant effects or critical hazards.
 Teratogenicity : No known significant effects or critical hazards.
 Developmental effects : No known significant effects or critical hazards.
 Fertility effects : No known significant effects or critical hazards.

## Section 12. Ecological information

**Product AS SOLD** 

**Ecotoxicity** : No known significant effects or critical hazards.

**Aquatic and terrestrial toxicity** 

Product/ingredient name Result **Species Exposure** white mineral oil, petroleum Acute LC50 <100 mg/l Fish 96 hours Acute LC50 22.03 mg/l 96 hours butane Fish solvent naphtha (petroleum), medium aliph. Acute LC50 800 mg/l Fish 96 hours

Other adverse effects : No known significant effects or critical hazards.

### Section 13. Disposal considerations

**Product AS SOLD** 

**Disposal methods**: Avoid disposal. Attempt to use product

completely in accordance with intended use. Disposal should be in accordance with applicable regional, national and local laws and regulations. Do not puncture or incinerate container. Discard

empty container in trash.

RCRA classification : Unused product is D001 (Ignitable)

#### **Product AT USE DILUTION**

Product is sold ready to use.

## Section 14. Transport information

Certain shipping modes or package sizes may have exceptions from the transport regulations. The classification provided may not reflect those exceptions and may not apply to all shipping modes or package sizes.

DOT

DOT Classification UN1950
DOT Proper shipping name Aerosols
Class 2.1
Packing group -

**IMO/IMDG** 

IMO/IMDG Classification UN1950
IMO/IMDG Proper shipping name AEROSOLS

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### Section 14. Transport information

Class 2.

Packing group

For transport in bulk, see shipping documents for specific transportation information.

#### Product AT USE DILUTION

Not intended for transport.

## Section 15. Regulatory information

#### **Product AS SOLD**

### U.S. Federal regulations

**TSCA 8(b) inventory** : All components are listed or exempted.

SARA 302/304/311/312 extremely hazardous substances: No listed substance SARA 302/304 emergency planning and notification: No listed substance

SARA 313 Product name CAS number Concentration

Form R - Reporting

requirements

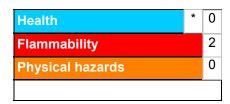
: No listed substance

California Prop. 65 : No listed substance

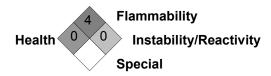
### Section 16. Other information

**Product AS SOLD** 

Hazardous Material Information System (U.S.A.)



### National Fire Protection Association (U.S.A.)



NFPA Aerosol Level : Level 1

Date of issue : 30 Oct 2013
Prepared by : Regulatory Affairs
1-800-352-5326

#### Notice to reader

The above information is believed to be correct with respect to the formula used to manufacture the product in the country of origin. As data, standards, and regulations change, and conditions of use and handling are beyond our control, NO WARRANTY, EXPRESS OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.