

Safety Data Sheet

COIL SAFE- NEUTRAL pH

SDS Revision Date:

12/12/2022



1. Identification

1.1. Product identifier

Product Identity

COIL SAFE

Alternate Names

90-297, Blended Formula, Coil Safe External
Evaporator Coil Cleaner-Neutral pH- 5 gallon

1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use

It is a non-acid, non-alkaline, non-toxic, self- rinsing coil cleaner.

Application Method

Read all precautions and instructions carefully before and after use.

1.3. Details of the supplier of the safety data sheet

Company Name

ComStar International Inc.
20-47 128th Street,
College Point, NY 11356

Telephone No.

718-445-7900
800-328-0142
Fax: 718-353-5998

Emergency 24 HR response No: 1-800-424-9300 & 703-527-3887 CHEMTREC

Note: The CHEMTREC phone number is only for emergencies involving spills, leaks, fire, exposure or accident. Please direct all other inquiries to our customer service phone number.

2. Hazard(s) identification

2.1. Classification of the substance or mixture

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids; H227, Category 4, Combustible liquid
Acute oral toxicity; H302, Category 4 Harmful if swallowed
Acute Inhalation Toxicity; H332 - Vapors Category 4 Harmful if inhaled
Skin Corrosion/Irritation; H315 Category 2, causes skin irritation
Serious Eye Damage/Eye Irritation; H319 Category 2A Causes serious eye irritation

2.2. Label elements

Using the Toxicity Data listed in section 11 and 12 the product is labeled as follows.

Signal Word



Warning

Hazard Statements

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Combustible liquid
Causes skin irritation
Causes serious eye irritation
Harmful if swallowed or if inhaled

Precautionary Statements

[Prevention]:

Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Avoid breathing dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area
Wear protective gloves/protective clothing/eye protection/face protection
Keep away from heat/sparks/open flames/hot surfaces. - No smoking

Inhalation
If Inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Call a poison center or doctor/physician if you feel unwell

Skin
If on skin: Wash with plenty of soap and water
If skin irritation occurs: Get medical advice/attention
Take off contaminated clothing and wash before reuse

Eyes
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention

Ingestion
If swallowed: Call a poison center or doctor/physician if you feel unwell Rinse mouth

Fire
In case of fire: Use CO₂, dry chemical, or foam for extinction

Storage
Store in a well-ventilated place. Keep cool

Disposal
Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)
None identified

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3. Composition/information on ingredients

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

Ingredient/Chemical Designations	Weight%	GHS Classification
ETHYLENE GLYCOL MONOBUTHYL ETHER CAS# 111-76-2	<15	Flammable liquids, Category 4 Acute oral toxicity, Category 4 Acute Inhalation Toxicity – Vapors, Category 4 Skin Corrosion/Irritation, Category 2 Serious Eye Damage/Eye Irritation, Category 2
VERSENE LIQUID CAS# 64-02-8	<1	Not Classified
SODIUM METASILICATE CAS# 10213-79-3	<5	Not Classified
SURFACTANT CAS# 68648-81-7	<10	Not Classified
WATER	BALANCE	Not Classified

4. First aid measures

4.1. Description of first aid measures

General	If symptoms persist, call a physician.
Inhalation	Remove to fresh air. Get medical attention if symptoms occur. If not breathing, give artificial respiration.
Eyes	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.
Skin	Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.
Ingestion	Clean mouth with water and drink afterwards plenty of water.

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

Overview	None reasonably foreseeable. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting
Notes to Physician	Treat symptomatically

5. Fire-fighting measures

5.1. Extinguishing media

Suitable Extinguishing Media

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Water spray, carbon dioxide (CO₂), dry chemical, alcohol-resistant foam. Water mist maybe used to cool closed containers.

Unsuitable Extinguishing Media

No information available

Flash Point

62 °C / 143.6 °F

Method -

Pensky Martens Closed Cup (ASTM D93, BS EN 22719, BS 2000 Part 404, IP404, ISO2719, AS/NZS 2106)

Autoignition Temperature

Temperature 230 °C / 446 °F

Explosion Limits

Upper 12.7% @ 135°C

Lower 1.1% @ 93°C

Oxidizing Properties Not oxidising

Sensitivity to Mechanical Impact No information available

Sensitivity to Static Discharge No information available

5.2. Special hazards arising from the Chemical.

Combustible material. Containers may explode when heated. Vapors may accumulate in confined areas (basement, tanks, hopper/tank cars, etc.). Vapors may form explosive mixtures with air. Keep product and empty container away from heat and sources of ignition. Risk of ignition.

5.3. Hazardous Combustion Products

Carbon monoxide (CO). Carbon dioxide (CO₂). peroxides. Protective Equipment and Precautions for Firefighters As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

Health
3

Flammability
2

Instability
0

Physical hazards
N/A

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment as required. Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges.

6.2. Environmental precautions

Should not be released into the environment.

6.3. Methods and material for containment and cleaning up

Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Remove all sources of ignition.

7. Handling and storage

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7.1. Precautions for safe handling

Wear personal protective equipment/face protection. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Keep away from open flames, hot surfaces and sources of ignition.

7.2. Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks and flame. Protect from light. Protect from moisture. Reacts with air to form peroxides. Keep containers tightly closed in a cool, well-ventilated place. Keep in properly labeled containers. Keep away from heat. Flammables area. Incompatible Materials. Strong oxidizing agents. Bases. Metals. Aluminum.

7.3. Specific end use(s)

No data available.

8. Exposure controls and personal protection

8.1. Control parameters

Exposure

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL (TWA)
ETHYLENE GLYCOL MONOBUTHYL ETHER CAS# 111-76-2	TWA: 20 ppm	(Vacated) TWA: 25 ppm (Vacated) TWA: 120 mg/m ³ Skin TWA: 50 ppm TWA: 240 mg/m ³	IDLH: 700 ppm TWA: 5 ppm TWA: 24 mg/m ³	TWA: 20 ppm
VERSENE CAS# 64-02-8	Not Applicable	Not Applicable	Not Applicable	Not Applicable
SODIUM METASILICATE CAS# 10213-79-3	Not Applicable	Not Applicable	Not Applicable	Not Applicable
SURFACTANT CAS# 68648-81-7	Not Applicable	Not Applicable	Not Applicable	Not Applicable

Carcinogen Data

CAS No.	Ingredient	Source	Value
34590-94-8	DIPROPYLENE GLYCOL MONOMETHYL ETHER	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
68648-81-7	SURFACTANT	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
Not Est	DEFOAMER	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No

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		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
10213-79-3	SODIUM METASILICATE	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
64-02-8	VERSENE LIQUID	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;

Legend

ACGIH - American Conference of Governmental Industrial Hygienists
 OSHA - Occupational Safety and Health Administration
 NIOSH IDLH: NIOSH - National Institute for Occupational Safety and Health

Personal Protective Equipment

8.2. Exposure controls

Respiratory

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirators if exposure limits are exceeded or if irritation or other symptoms are experienced.

Eyes

Tight sealing safety goggles. Face protection shield.

Skin

Wear appropriate protective gloves and clothing to prevent skin exposure.

Engineering Controls

Measures Ensure adequate ventilation, especially in confined areas. Use explosion-proof electrical/ventilating/lighting equipment. Ensure that eyewash stations and safety showers are close to the workstation location.

Hygiene Measures

When using do not eat, drink or smoke. Provide regular cleaning of equipment, work area and clothing.

Other Work Practices

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

See section 2 for further details. - [Prevention]:

9. Physical and chemical properties

Appearance

Green Liquid

Odor

Slight

Odor threshold

No information available

pH

No information available

Melting point / freezing point

-70 °C / -94 °F

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Initial boiling point and boiling range	171 °C / 339.8 °F
Flash Point	62 °C / 143.6 °F
Evaporation rate (Ether = 1)	No information available
Flammability (solid, gas)	Not Applicable
Upper/lower flammability or explosive limits	Lower Explosive Limit: 1.1% @ 93°C Upper Explosive Limit: 12.7% @ 135°C
Vapor pressure (Pa)	0.8 hPa @ 20°C
Vapor Density	No information available
Specific Gravity	0.901
Solubility in Water	miscible
Partition coefficient n-octanol/water (Log Kow)	No data available
Auto-ignition temperature	230 °C / 446 °F
Decomposition temperature	No information available
Viscosity (cSt)	5.31 mPa.s at 20 °C
Molecular Formula	C6 H14 O2
Molecular Weight	118.18
9.2. Other information	No other relevant information.

10. Stability and reactivity

10.1. Reactivity

None known, based on information available

10.2. Chemical stability

Air sensitive. Light sensitive.

10.3. Possibility of hazardous reactions

None under normal processing.

10.4. Conditions to avoid

Incompatible products. Keep away from open flames, hot surfaces and sources of ignition. Extremes of temperature and direct sunlight. Exposure to air or moisture over prolonged periods. Heating in air.

10.5. Incompatible materials

Strong oxidizing agents, Bases, Metals, Aluminum

10.6. Hazardous Polymerization

Hazardous polymerization does not occur.

10.7. Hazardous decomposition products

None under normal processing.

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11. Toxicological information

Ingredient	LD50 ORAL	LD50 DERMAL	LC50
ETHYLENE GLYCOL MONOBUTHYL ETHER CAS# 111-76-2	1746 mg/kg (Rat)	LD50 > 2000 mg/kg (Guinea pig) OCED 402	LC50 = 450 ppm (Rat) 4 h LC50 = 486 ppm (Rat) 4 h
VERSENE LIQUID CAS# 64-02-8	No data available	No data available	No data available
SODIUM METASILICATE CAS# 10213-79-3	No data available	No data available	No data available
SURFACTANT PACKAGE CAS# 68648-81-7	No data available	No data available	No data available

Toxicologically Synergistic Products No information available
Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation Irritating to eyes and skin

Sensitization No information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
ETHYLENE GLYCOL MONOBUTHYL ETHER	111-76-2	Not listed	Not listed	A3	Not listed	A3

ACGIH: (American Conference of Governmental Industrial Hygienists)

A1 - Known Human Carcinogen

A2 - Suspected Human Carcinogen

A3 - Animal Carcinogen

ACGIH: (American Conference of Governmental Industrial Hygienists)

Mexico - Occupational Exposure Limits - Carcinogens

Mexico - Occupational Exposure Limits - Carcinogens

A1 - Confirmed Human Carcinogen

A2 - Suspected Human Carcinogen

A3 - Confirmed Animal Carcinogen

A4 - Not Classifiable as a Human Carcinogen

A5 - Not Suspected as a Human Carcinogen

Mutagenic Effects No information available

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Reproductive Effects None known.

Developmental Effects No information available

Teratogenicity No information available

STOT - single exposure None known

STOT - repeated exposure None known

Aspiration hazard No information available

Symptoms/effects, both acute and delayed

Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting

Endocrine Disruptor Information No information available

Other Adverse Effects No information available.

12. Ecological information

12.1. Toxicity

No additional information provided for this product. See Section 3 for chemical specific data.

Ecotoxicity

Do not empty into drains

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
ETHYLENE GLYCOL MONOBUTHYL ETHER	1840 mg/l EC50 72 hr	1490 mg/L LC50 96 h 2950 mg/L LC50 96 h	Not listed	1550 mg/l EC50 48 hr>1000 mg/L EC50 48 h1698 - 1940 mg/L EC50 24h

12.2. Persistence and degradability

Persistence is unlikely

12.3. Bioaccumulative potential

No information available.

12.4. Mobility in soil

Will likely be mobile in the environment due to its water solubility.

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12.5. Results of PBT and vPvB assessment

This product contains no PBT/vPvB chemicals.

12.6. Other adverse effects

No data available.

Component	log Pow
ETHYLENE GLYCOL MONOBUTHYL ETHER	0.81

13. Disposal considerations

13.1. Waste treatment methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information

DOT COMBUSTIBLE LIQUID, NOT REGULATED FOR TRANSPORT IN THIS QUANTITY According to 49 CFR §173.150(f)(1), this material should be reclassified as NA1993, Combustible Liquid, NOS if it is shipped in bulk.

UN-No	NA1993
Proper Shipping Name	Combustible liquid, n.o.s.
Packing Group	III
TDG	Not regulated
IATA	Not regulated
IMDG/IMO	Not regulated

15. Regulatory information

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
ETHYLENE GLYCOL MONOBUTHYL ETHER	111-76-2	X	ACTIVE	--

Legend:

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TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed

'-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
ETHYLENE GLYCOL MONOBUTHYL ETHER	111-76-2	X	-	203-905-0	X	X	X	X	X	KE-04134

KECL - NIER number or KE number (<http://ncis.nier.go.kr/en/main.do>)

U.S. Federal Regulations

SARA 313

Component	CAS No	Weight %	SARA 313 – Threshold Values %
ETHYLENE GLYCOL MONOBUTHYL ETHER	111-76-2		1.0

SARA 311/312 Hazard Categories

See section 2 for more information

CWA (Clean Water Act)

Not applicable

Clean Air Act

Component	HAPS Data	Class 1 Ozone Depletors	Class 2 Ozone Depletors
ETHYLENE GLYCOL MONOBUTHYL ETHER	X		---

OSHA - Occupational Safety and Health Administration

Not applicable

CERCLA

Not applicable

California Proposition 65

any Proposition 65 chemicals.

This product does not contain

U.S. State Right-to-Know Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
ETHYLENE GLYCOL MONOBUTHYL ETHER	X	X	X	X	X

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products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

The opinions expressed are those of qualified experts within ComStar International Inc. We believe that the information contained is current as of the date of the Safety Data Sheet. Since the use of this information and of these opinions and the conditions of the use of the product are not within the control of ComStar International Inc., it is the user's obligation to determine the conditions of safe use of the product.

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