

Safety Data Sheet



Issue Date: 12-Oct-2020

Version: 1

1. IDENTIFICATION

Product Identifier

Product Name Sky-Go EG Concentrate

Other means of identification

SDS# ASG-002

UN/ID No UN3082

Recommended use of the chemical and restrictions on use

Recommended Use Aircraft deicer

Details of the supplier of the safety data sheet

Supplier Address

ASG Global Aviation Chemicals, LLC
2680 Matheson Blvd East, Suite 102
Mississauga, ON, L4W 0A5
Canada
+1 905-267-3433

Emergency Telephone Number

Emergency Telephone (24 hr) PH# +1 905-267-3433

2. HAZARDS IDENTIFICATION

Appearance: Clear, orange liquid

Physical State: Liquid

Odor: None

Classification

Acute Toxicity - Oral	Category 4
Specific Target Organ Toxicity (repeated exposure)	Category 2

Signal Word

Warning

Hazard Statements

Harmful if swallowed

May cause damage to organs through prolonged or repeated exposure

**Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Do not breathe dust/fume/gas/mist/vapors/spray

Precautionary Statements – Response

Get medical advice/attention if you feel unwell

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

Rinse mouth

Precautionary Statements – Disposal

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

3. COMPOSITION/INFORMATION ON INGREDIENTS
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Chemical Name	CAS No	Weight-%
Ethylene Glycol	107-21-1	60-100

If Chemical Name/CAS No is “proprietary” and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. FIRST-AID MEASURES

First Aid Measures**General Advice**

Provide this SDS to medical personnel for treatment

Eye Contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.

Skin Contact

Remove contaminated clothing; wash affected area with soap and water; launder contaminated clothing before reuse; if irritation persists, seek medical attention.

Inhalation

Remove exposed individual(s) to fresh air for 20 minutes. Consult a physician/poison center if individuals condition declines or if symptoms persist.

Ingestion

If swallowed, do not induce vomiting, except at the direction of medical personnel. Rinse mouth. Drink 1 or 2 glasses of water. Get medical attention immediately.

Most important symptoms and effects**Symptoms**

May cause eye and skin irritation. May cause nausea, vomiting, stomach ache and diarrhea.

Indication of any immediate medical attention and special treatment needed**Notes to Physician**

May aggravate pre-existing skin disorders.

5. FIRE-FIGHTING MEASURES**Suitable Extinguishing Media**

Water, foam, carbon dioxide, dry powder

Unsuitable Extinguishing Media Not determined

Specific Hazards Arising from the Chemical

The product may become combustible after prolonged heating at the boiling point.

Hazardous Combustion Products Carbon oxides.

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.

6. ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment and emergency procedures****Personal Precautions**

Wear protective clothing as described in Section 8 of this safety data sheet. Ventilate affected area.

Environmental Precautions

Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12. Ecological information.

Methods and material for containment and cleaning up**Methods for Containment**

Prevent further leakage or spillage if safe to do so. Soak up and contain spill with an inert (i.e. vermiculite, dry sand or earth) absorbent material.

Methods for Clean-Up

Sweep up absorbed material and shovel into suitable containers for disposal. Discard any product, residue, disposable container or liner in full compliance with federal, state, and local regulations. For waste disposal, see section 13 of the SDS.

Prevention of Secondary Hazards

Material can create slippery conditions.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Advice on Safe Handling

Handle in accordance with good industrial hygiene and safety practice. Use personal protection recommended in Section 8. Avoid contact with skin, eyes or clothing. Wash face, hands, and any exposed skin thoroughly after handling. Follow all SDS/label precautions even after container is emptied, because it may retain product residues. Do not breathe vapors or spray mist. Do not eat, drink, or smoke when handling product.

Conditions for Safe Storage, Including any Incompatibilities

Storage Conditions

Keep container tightly closed and store in a cool, dry and well-ventilated place. Store away from incompatible materials.

Packaging Materials

Empty containers retain product residue and can be hazardous

Incompatible Materials

Strong oxidizing agents

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Ethylene Glycol 107-21-1	Ceiling: 100 mg/m ³ aerosol only	(vacated) Ceiling: 50 ppm (vacated) Ceiling: 125 mg/m ³	-

Appropriate Engineering Controls

Engineering Controls

Apply technical measures to comply with the occupational exposure limits. Eyewash stations. Showers.

Individual Protection Measures, Such as Personal Protective Equipment**Eye/Face Protection**

Wear eye protection if splashing is possible.

Skin and Body Protection

Chemical impervious to gloves. Boots, aprons needed for protection against spill/splashes

Respiratory Protection

Not usually necessary under conditions of normal use. In case of inadequate ventilation wear respiratory protection.

General Hygiene Considerations

Wash contaminated clothing before reuse. Wash face, hands and any exposed skin thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES**Information on Basic Physical and Chemical Properties**

Physical State	Liquid
Appearance	Clear, orange liquid
Color	Clear orange
Odor	None
Odor Threshold	Not Determined

<u>Property</u>	<u>Values</u>	<u>Remarks – Method</u>
pH	7.50-8.50	@ 20°C
Melting Point/Freezing Point	100% Below -70°C 75% v/v -60°C 50% v/v -28°C	
Boiling Point/Boiling Range	> 100°C / > 212°F	
Flash Point	> 100°C / > 212°F	
Evaporation Rate	Not determined	
Flammability (Solid, Gas)	Liquid-not applicable	
Upper Flammability Limits	Not determined	
Lower Flammability Limit	Not determined	
Vapor Pressure	< 10 mmHg	@ 68°F (20°C)
Vapor Density	1.5 (estimated)	(Air=1)
Specific Gravity	> 1.04	@ 20°C (68°F)
Water Solubility	Completely miscible	
Solubility in other solvents	Not determined	
Partition Coefficient	Not determined	
Auto-ignition Temperature	> 250°C / > 482°F	
Decomposition Temperature	Not determined	
Kinematic Viscosity	Not determined	
Dynamic Viscosity	Not determined	

Explosive Properties Not an explosive
Oxidizing Properties Not determined

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions

Chemical Stability

Stable under recommended storage conditions

Possibility of Hazardous Reactions

None under normal processing

Hazardous Polymerization Hazardous polymerization does not occur

Conditions to Avoid

Avoid heat, sparks, open flames and other ignition sources. Keep separated from incompatible substances.

Incompatible Materials

Strong oxidizing agents.

Hazardous Decomposition Products

Incomplete combustion may produce Carbon Monoxide and other harmful gases.

11. TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Product Information

Eye Contact May cause temporary irritation on eye contact.

Skin Contact May cause temporary irritation on skin contact.

Inhalation Avoid breathing vapors or mists

Ingestion Harmful if swallowed.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Ethylene Glycol 107-21-1	= 4000 - 10200 mg/kg (Rat)	=9530 µL/kg (Rabbit)= 10600 mg/kg (Rat)	-

Information on Physical, Chemical and Toxicological Effects

Symptoms Please see section 4 of this SDS for symptoms

Delayed and Immediate Effects as Well as Chronic Effects from Short and Long-term Exposure

Carcinogenicity

Based on the information provided, this product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

STOT – repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Numerical Measures of Toxicity

Not determined

12. ECOLOGICAL INFORMATION

Ecotoxicity

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Component Information

Chemical Name	Algae/Aquatic Plants	Fish	Toxicity to Microorganisms	Crustacea
Ethylene Glycol 107-21-1	6500 – 13000 : 96 h Pseudokirchneriella subcapitata mg/L EC50	41000: 96 h Oncorhynchus mykiss mg/L LC50 14 – 18: 96 h Oncorhynchus mykiss mL/L LC50 static 27540 : 96 h Lepomis macrochirus mg/L LC50 static 40761 : 96 h Poecilia reticulata mg/L LC50 static 40000 – 60000: 96 h Pimephales promelas mg/L LC50 static	EC50 = 10000 mg/L EC50 = 620 mg/L 30 min EC50 = 620.0 mg/L 30 min	46300: 48 h Daphnia magna mg/L EC50

Persistence/Degradability

Not determined

Bioaccumulation

Not determined

Mobility

Chemical Name	Partition Coefficient
Ethylene glycol 107-21-1	-1.93

Other Adverse Effects

Not determined

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods**Disposal of Wastes**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging Disposal should be in accordance with applicable regional, national and local laws and regulations

14. TRANSPORT INFORMATION

Note	Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances
DOT	Not regulated (Single Container < RQ)
UN/ID No	UN3082
Proper Shipping Name	Environmentally hazardous substance, liquid, n.o.s. (Ethylene Glycol)
Hazard Class	9
Packing Group	III
Reportable Quantity (RQ)	5000 lbs
IATA	Not regulated
IMDG	Not regulated

15. REGULATORY INFORMATION

International Inventories

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Ethylene Glycol	Present	X		Present		Present	X	Present	X	X

Legend:

TSCA – United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL – Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS – European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS – Japan Existing and New Chemical Substances
IECSC – China Inventory of Existing Chemical Substances
KECL – Korean Existing and Evaluated Chemical Substances
PICCS – Philippines Inventory of Chemicals and Chemical Substances
AICS – Australian Inventory of Chemical Substances

US Federal Regulations

CERCLA

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Ethylene Glycol 102-21-1	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Chemical Name	CAS No	Weight - %	SARA 313 – Threshold Values %
Ethylene Glycol 102-21-1	107-21-1	60-100	1.0

US State Regulations**U.S. State Right-to-Know Regulations**

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Ethylene Glycol 107-21-1	X	X	X

16. OTHER INFORMATION**NFPA**

Health Hazards
Not determined

Flammability
Not determined

Instability
Not determined

Special Hazards
Not determined

HMIS

Health Hazards
Not determined

Flammability
Not determined

Physical Hazards
Not determined

Personal Protection
Not determined

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Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information, and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

END OF SAFETY DATA SHEET