

# Safety Data Sheet

## SFF-10TB BIO CLEANER

SDS Revision Date:

12/12/2022



### 1. Identification

#### 1.1. Product identifier

**Product Identity**

SFF-10TB BIO CLEANER

**Alternate Names**

55-227, Blended Formula, SFF-10TB Bio Cleaner, Train and Bus Exterior Body Clean- JAPAN- 5 gallon

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

**Intended use**

It's used as a body cleaner & iron stain remover for trains & buses.

**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

Skin Irrit 2; H315 Causes skin irritation

#### 2.2. Label elements

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



**Warning**

**[Prevention]:**

P261 Avoid breathing dust / fume / gas / mist / vapors / spray.

**[Response]:**

P312: Call a poison center or doctor / physician if you feel unwell.

P340 Remove victim to fresh air and keep at rest in a position comfortable for breathing.

**[Storage]:**

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No GHS storage statements

**[Disposal]:**

No GHS disposal statements

### 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	Notes
DIPROPYLENE GLYCOL MONOMETHYL ETHER CAS#: 34590-94-8	<25	Eye Irrit. 2B	
CITRUS TERPENES CAS#: 5989-27-5	<20	Flam. Liq. 3, H226 Aquatic Acute 1, H400; Aquatic Chronic 1, H410 Skin Irrit. 2, H315; Skin Sens. 1, H317	
AMMONIUM BIFLUORIDE CAS#: 1341-49-7	<4	Acute toxicity, Oral 3, H301 Skin corrosion 1B H314 Serious eye damage 1 H318	
SURFACTANT PACKAGE CAS#: 68648-81-7	<20	Not Classified	
WATER CAS#: N/A	Balance	Not Classified	

In accordance with paragraph (i) of §1910.1200, the specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

\*The full texts of the phrases are shown in Section 16.

### 4. First aid measures

#### 4.1. Description of first aid measures

<b>General</b>	If symptoms persist, call a physician. Show this safety data sheet to the doctor in attendance.
<b>Inhalation</b>	Remove to fresh air. Get medical attention immediately if symptom occur.
<b>Eyes</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.
<b>Skin</b>	Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.
<b>Ingestion</b>	If swallowed obtain immediate medical attention. Keep at rest. Do not induce vomiting.

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

**Overview** Difficulty in breathing. 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

Water spray, carbon dioxide (CO<sub>2</sub>), dry chemical, alcohol-resistant foam. Water mist may be used to cool closed containers.

#### Extinguishing media which must not be used for safety reasons

No information available.

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

Combustible material. Containers may explode when heated.

### 5.3. Hazardous Combustion Products

Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>).

### 5.4. Advice for fire-fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**ERG Guide No.** ---

## 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. See Section 12 for additional Ecological Information.

### 6.3. Methods and material for containment and cleaning up

Sweep up and shovel into suitable containers for disposal. Remove all sources of ignition.

### 6.4. Reference to other sections

Refer to protective measures listed in Sections 8 and 13.

## 7. Handling and storage

### 7.1. Precautions for safe handling

Wear personal protective equipment/face protection. Avoid contact with skin, eyes, or clothing. Avoid ingestion and inhalation. Ensure adequate ventilation. Keep away from open flames, hot surfaces, and sources of ignition.

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### Hygiene Measures

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

### 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. Store under an inert atmosphere. Protect from moisture.

### 7.3. Specific end use(s)

No data available.

## 8. Exposure controls and personal protection

### 8.1. Control parameters

#### Exposure limits

List source(s): EU - Commission Directive (EU) 2019/1831 of 24 October 2019 establishing a fifth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC and amending Commission Directive 2000/39/EC UK - EH40/2005 Work Exposure Limits, Third edition. Published 2018. IRE - 2018 Code of Practice for the Chemical Agents Regulations, Schedule 1. Published by the Health and Safety Authority

Component	The United Kingdom	European Union	Ireland
Dipropylene glycol monomethyl ether	STEL: 150 ppm 15 min STEL: 924 mg/m <sup>3</sup> 15 min TWA: 50 ppm 8 hr TWA: 308 mg/m <sup>3</sup> 8 hr Skin	TWA: 50 ppm (8h) TWA: 308 mg/m <sup>3</sup> (8h) Skin	TWA: 50 ppm 8 hr. TWA: 308 mg/m <sup>3</sup> 8 hr. STEL: 150 ppm 15 mins STEL: 924 mg/m <sup>3</sup> 15 min Skin

#### Biological limit values

This product, as supplied, does not contain any hazardous materials with biological limits established by the region-specific regulatory bodies.

#### Monitoring methods

BS EN 14042:2003 Title Identifier: Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents. MDHS70 General methods for sampling airborne gases and vapours.

**Derived No Effect Level (DNEL)** No information available

Route of exposure	Acute effects (local)	Acute effects (systemic)	Chronic effects (local)	Chronic effects (systemic)
Oral Dermal Inhalation				

**Predicted No Effect Concentration (PNEC)** No information available.

CAS No.	Ingredient	Source	Value

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34590-94-8	DIPROPYLENE GLYCOL MONOMETHYL ETHER	OSHA	100 ppm
		ACGIH	100 ppm
		NIOSH	TWA 100 ppm (600 mg/m <sup>3</sup> ) ST 150 ppm (900 mg/m <sup>3</sup> ) [skin]
		Supplier	No Established Limit
5989-27-5	CITRUS TERPENES	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit
1341-49-7	AMMONIUM BIFLUORIDE	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit
68648-81-7	SURFACTANT PACKAGE	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit
N/A	WATER	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit

### 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;
5989-27-5	CITRUS TERPENES	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;
1341-49-7	AMMONIUM BIFLUORIDE	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;

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68648-81-7	SURFACTANT PACKAGE	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;
N/A	WATER	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;

### 8.2. Exposure controls

#### Engineering Measures

None under normal use conditions. Ensure adequate ventilation, especially in confined areas.

#### Personal protective equipment

**Eye Protection**     Wear safety glasses with side shields (or goggles) (European standard - EN166)

**Hand Protection**     Protective gloves

Glove material	Breakthrough time	Glove thickness	EU standard	Glove comments
Nitrile rubber Neoprene Natural rubber PVC	See manufacturers recommendations	---	EN 374	(Minimum requirement)

**Skin and body protection**     Wear appropriate protective gloves and clothing to prevent skin exposure

Inspect gloves before use.

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information) Ensure gloves are suitable for the task: Chemical compatibility, Dexterity, Operational conditions, User susceptibility, e.g., sensitization effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion.

Remove gloves with care avoiding skin contamination.

**Respiratory Protection**     No protective equipment is needed under normal use conditions.

**Large scale/emergency use**     A NIOSH/MSHA or European Standard EN 136 approved respirators if exposure limits are exceeded or if irritation or other symptoms are experienced

**Recommended Filter type: Particle filter 2**

**Small scale/Laboratory use**     Maintain adequate ventilation  
**Recommended half mask:-**     Valve filtering: EN405; or; Half mask: EN140; plus filter, EN141

**Environmental exposure controls**     No information available

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### 9. Physical and chemical properties

<b>Appearance</b>	Clear Liquid
<b>Odor</b>	Citrus odor
<b>Odor threshold</b>	Not Measured
<b>pH</b>	6
<b>Melting point / freezing point</b>	-80°C / -112°F
<b>Initial boiling point and boiling range</b>	180°C / 356°F
<b>Flash Point (diluted)</b>	None
<b>Evaporation rate (Ether = 1)</b>	Not Measured
<b>Flammability (solid, gas)</b>	Not Applicable
<b>Upper/lower flammability or explosive limits</b>	<b>Lower Explosive Limit:</b> 1.3 Vol% <b>Upper Explosive Limit:</b> 10.4 Vol%
<b>Vapor pressure (Pa)</b>	0.4 mmHg @ 25°C
<b>Vapor Density</b>	Not Measured
<b>Specific Gravity</b>	>1
<b>Solubility in Water</b>	Complete
<b>Solubility in other solvents</b>	No information available
<b>Partition coefficient n-octanol/water (Log Kow)</b>	Not Measured
<b>Auto-ignition temperature</b>	270°C / 518°F
<b>Decomposition temperature</b>	No data available
<b>Viscosity (cSt)</b>	25°C/77°F: NA
<b>Volatiles (% by weight)</b>	NA
<b>Octanol/Water Partition Coefficient</b>	NA

#### 9.2. Other information

<b>Molecular Formula</b>	C7 H16 O3
<b>Molecular Weight</b>	148.20
<b>Explosive Properties</b>	explosive air/vapour mixtures possible

### 10. Stability and reactivity

#### 10.1. Reactivity

None known, based on information available

#### 10.2. Chemical stability

Hygroscopic

#### 10.3. Possibility of hazardous reactions

None under normal processing.

#### 10.4. Conditions to avoid

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Keep away from open flames, hot surfaces, and sources of ignition. Incompatible products. Excess heat. Exposure to moist air or water.

### 10.5. Incompatible materials

Strong oxidizing agents.

### 10.6. Hazardous decomposition products

Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>).

## 11. Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Product Information

See actual entry in RTECS for complete information.

#### (a) acute toxicity;

Oral Based on available data, the classification criteria are not met

Dermal Based on available data, the classification criteria are not met

Inhalation Based on available data, the classification criteria are not met

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Dipropylene glycol monomethyl ether	LD50 = 5.35 g/kg (Rat)	LD50 = 9500 mg/kg (Rabbit)	---

#### (b) skin corrosion/irritation;

Based on available data, the classification criteria are not met

#### (c) serious eye damage/irritation;

Based on available data, the classification criteria are not met

#### (d) respiratory or skin sensitization;

##### Respiratory

Based on available data, the classification criteria are not met

##### Skin

Based on available data, the classification criteria are not met

#### (e) germ cell mutagenicity;

met

Based on available data, the classification criteria are not met

Not mutagenic in AMES Test

#### (f) carcinogenicity;

Based on available data, the classification criteria are not met

There are no known carcinogenic chemicals in this product

#### (g) reproductive toxicity;

Based on available data, the classification criteria are not met

#### (h) STOT-single exposure;

Based on available data, the classification criteria are not met

#### (i) STOT-repeated exposure;

##### Target Organs

Based on available data, the classification criteria are not met

None known.

#### (i) aspiration hazard;

Based on available data, the classification criteria are not met

**Other Adverse Effects**  
investigated.

The toxicological properties have not been fully

**Symptoms / effects, both acute and delayed**

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

### 11.2. Information on other hazards

#### Endocrine Disrupting Properties

Assess endocrine disrupting properties for human health. This product does not contain any known or suspected endocrine disruptors.

## 12. Ecological information

### 12.1. Toxicity

#### Aquatic Ecotoxicity

Do not empty into drains.

Component	Freshwater Fish	Water Flea	ErC50 algae, mg/l
DIPROPYLENE GLYCOL MONOMETHYL ETHER (34590-94-8)	Pimephales promelas: LC50 >10000 mg/L/96h	LC50: = 1919 mg/L, 48h (Daphnia magna)	
CITRUS TERPENES CAS#: 5989-27-5	Not Available	Not Available	Not Available
AMMONIUM BIFLUORIDE CAS#: 1341-49-7	Not Available	Not Available	Not Available
SURFACTANT PACKAGE CAS#: 68648-81-7	Not Available	Not Available	Not Available
WATER CAS#: N/A	Not Available	Not Available	Not Available

### 12.2. Persistence and degradability

Readily biodegradable, Persistence is unlikely

### 12.3. Bioaccumulative potential

Bioaccumulation is unlikely

### 12.4. Mobility in soil

The product is water soluble, and may spread in water systems. Will likely be mobile in the environment due to its water solubility. Highly mobile in soils.

### 12.5. Results of PBT and vPvB assessment

Substance is not considered persistent, bioaccumulative and toxic (PBT) / very persistent and very bioaccumulative (vPvB).

### 12.6. Endocrine disrupting properties

#### Endocrine Disruptor Information

This product does not contain any known or suspected endocrine disruptors

### 12.7. Other adverse effects Persistent Organic Pollutant

This product does not contain any known or suspected substance

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### 12.8. Ozone Depletion Potential

This product does not contain any known or suspected substance

## 13. Disposal considerations

### 13.1. Waste treatment methods

#### Waste from Residues/Unused Products

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

#### Contaminated Packaging

Empty remaining contents. Dispose of in accordance with local regulations. Do not re-use empty containers.

#### European Waste Catalogue (EWC)

According to the European Waste Catalog, Waste Codes are not product specific, but application specific.

#### Other Information

Waste codes should be assigned by the user based on the application for which the product was used.

## 14. Transport information

	DOT (Domestic Surface Transportation)	IMO / IMDG (Ocean Transportation)	ICAO/IATA
14.1. UN number	Not Regulated	Not Regulated	Not Regulated
14.2. UN proper shipping name	Not Regulated	Not Regulated	Not Regulated
14.3. Transport hazard class(es)	DOT Hazard Class: Not Applicable	IMDG: Not Applicable Sub Class: Not Applicable	Air Class: Not Applicable
14.4. Packing group	Not Applicable	Not Applicable	Not Applicable

### 14.5. Environmental hazards

IMDG Marine Pollutant: No

### 14.6. Special precautions for user

No further information

## 15. Regulatory information

### 15.1. Safety, health, and environmental regulations/legislation specific for the substance or mixture.

#### International Inventories

X = listed, Europe (EINECS/ELINCS/NLP), U.S.A. (TSCA), Canada (DSL/NDSL), Philippines (PICCS), China (IECSC), Japan (ENCS), Australia (AICS), Korea (ECL).

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Component	EINECS	ELINCS	NLP	TSCA	DSL	NDSL	PICCS	ENCS	IECSC	AICS	KECL
Dipropylene glycol monomethyl ether	252-104-2	---		X	X	---	X	X	X	X	KE-12230

**Regulation (EC) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of dangerous chemicals**  
Not applicable

### National Regulations

**WGK Classification** See table for values

Component	Germany - Water Classification (VwVwS)	Germany - TA-Luft Class
Dipropylene glycol monomethyl ether	WGK1	

Component	France - INRS (Tables of occupational diseases)
Dipropylene glycol monomethyl ether	Tableaux des maladies professionnelles (TMP) - RG 84

**UK** - Take note of Control of Substances Hazardous to Health Regulations (COSHH) 2002

### 15.2. Chemical safety assessment

A Chemical Safety Assessment/Report (CSA/CSR) has not been conducted

## 16. Other information

### Full text of H-Statements referred to under sections 2 and 3

**CAS** - Chemical Abstracts Service  
Substances Control inventory

**EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

Domestic Substances List/Non-Domestic

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances and New Chemical Substances

**IECSC** - Chinese Inventory of Existing Chemical Substances of Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances Inventory of Chemicals

**WEL** - Workplace Exposure Limit Average

### Legend

**TSCA** - United States Toxic

**DSL/NDSL** - Canadian  
Substances List

**ENCS** - Japanese Existing

**AICS** - Australian Inventory

**NZIoC** - New Zealand

**TWA** - Time Weighted

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**ACGIH** - American Conference of Governmental Industrial Hygienists  
for Research on Cancer

**DNEL** - Derived No Effect Level  
(PNEC)

**RPE** - Respiratory Protective Equipment

**LC50** - Lethal Concentration 50%

**NOEC** - No Observed Effect Concentration  
Octanol:Water

**PBT** - Persistent, Bioaccumulative, Toxic  
Bioaccumulative

**ADR** - European Agreement Concerning the International Carriage of Dangerous Goods by Road

**ICAO/IATA** - International Civil Aviation Organization/International Air Transport Association

**IMO/IMDG** - International Maritime Organization/International Maritime Dangerous Goods Code

**MARPOL** - International Convention for the Prevention of Pollution from Ships

**OECD** - Organisation for Economic Co-operation and Development

**BCF** - Bioconcentration factor

Key literature references and sources for data

<https://echa.europa.eu/information-on-chemicals>

Suppliers safety data sheet, Chem advisor - LOLI, Merck index, RTECS

**IARC** - International Agency

Predicted No Effect Concentration

**LD50** - Lethal Dose 50%

**EC50** - Effective Concentration 50%

**POW** - Partition coefficient

**vPvB** - very Persistent, very

### Training Advice

Chemical hazard awareness training, incorporating labelling, Safety Data Sheets (SDS), Personal Protective Equipment (PPE) and hygiene.

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our 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 Material 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.

End of Document

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