

# **SAFETY DATA SHEET**

Creation Date 30-December-2014 Revision Date 17-January-2018 Revision Number 4

1. Identification

Product Name FL-70 Detergent, Biodegradable

Cat No.: SF105-1; SF105-4

Synonyms Concentrated cleaning compound

Recommended Use Laboratory chemicals.

Uses advised against

Not for food, drug, pesticide or biocidal product use

Details of the supplier of the safety data sheet

Company

Importer/Distributor Fisher Scientific 112 Colonnade Road, Ottawa, ON K2E 7L6,

Canada

Tel: 1-800-234-7437

Manufacturer

Fisher Scientific One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100

**Emergency Telephone Number** 

CHEMTREC®, Inside the USA: 800-424-9300 CHEMTREC®, Outside the USA: 001-703-527-3887

# 2. Hazard(s) identification

Classification

WHMIS 2015 Classification Classified as hazardous under the Hazardous Products Regulations (SOR/2015-17)

Serious Eye Damage/Eye Irritation

Category 2

Label Elements

Signal Word

Warning

**Hazard Statements** 

Causes serious eye irritation



Precautionary Statements Prevention

Wash face, hands and any exposed skin thoroughly after handling

Wear eye/face protection

Response

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

**Disposal** 

Dispose of contents/container to an approved waste disposal plant

# 3. Composition/Information on Ingredients

Component	CAS-No	Weight %
Water	7732-18-5	88.8
9-Octadecenoic acid (Z)-, compound with 2,2',2"-nitrilotris[ethanol](1:1)	2717-15-9	3.8
Sodium carbonate	497-19-8	2.7
Alcohols, C12-14-secondary, ethoxylated	84133-50-6	1.8
Tetrasodium EDTA	64-02-8	1.4
Polyethylene glycol	25322-68-3	0.9
Sodium oleate	143-19-1	0.5
Sodium bicarbonate	144-55-8	0.1

## 4. First-aid measures

**Eye Contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get

medical attention.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Get medical attention if

symptoms occur.

**Inhalation** Move to fresh air. If breathing is difficult, give oxygen. Get medical attention if symptoms

occur.

**Ingestion** Do not induce vomiting. Obtain medical attention.

Most important symptoms/effects Irritating to eyes.

Notes to Physician Irritating to eyes.

Treat symptomatically

### 5. Fire-fighting measures

Suitable Extinguishing Media Substance is nonflammable; use agent most appropriate to extinguish surrounding fire.

Unsuitable Extinguishing Media No information available

Flash Point No information available Method - No information available

**Autoignition Temperature** 

**Explosion Limits** 

No information available

Upper No data available
Lower No data available
Sensitivity to Mechanical Impact No information available
Sensitivity to Static Discharge No information available

## **Specific Hazards Arising from the Chemical**

Non-combustible. Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition.

#### **Hazardous Combustion Products**

Thermal decomposition can lead to release of irritating gases and vapors

#### **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

HealthFlammabilityInstabilityPhysical hazards200N/A

### 6. Accidental release measures

Personal Precautions Use personal protective equipment. Ensure adequate ventilation. Avoid contact with skin,

eyes and clothing.

**Environmental Precautions** Avoid release to the environment. See Section 12 for additional ecological information.

**Methods for Containment and Clean** Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. **Up** 

7. Handling and storage

Avoid contact with skin and eyes. Ensure adequate ventilation. Wear personal protective

equipment.

**Storage** Keep containers tightly closed in a dry, cool and well-ventilated place.

## 8. Exposure controls / personal protection

**Exposure Guidelines** 

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

#### **Engineering Measures**

Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source

#### Personal protective equipment

**Eye Protection** Goggles

**Hand Protection** Wear appropriate protective gloves and clothing to prevent skin exposure.

Glove material	Breakthrough time	Glove thickness	Glove comments
Natural rubber	See manufacturers	-	Splash protection only
Nitrile rubber	recommendations		
Neoprene			
PVC			

Inspect gloves before use. observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information) gloves are suitable for the task: Chemical compatability, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion. gloves with care avoiding skin contamination.

### **Respiratory Protection**

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. 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 respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. To protect the wearer, respiratory protective equipment must be the correct fit and be used and maintained properly **Recommended Filter type:** Particulates filter conforming to EN 143

When RPE is used a face piece Fit Test should be conducted

### **Environmental exposure controls**

No information available.

#### **Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use. Wash hands before breaks and at the end of workday.

### 9. Physical and chemical properties

Physical StateLiquidAppearanceYellowOdorOdorless

Odor Threshold No information available

pH Alkaline
Melting Point/Range 0 °C
Boiling Point/Range > 100 °C
> 100 °C

Flash Point

Evaporation Rate

No information available
> 1 (Ether = 1.0)
Flammability (solid,gas)

Not applicable

Flammability or explosive limits

Upper No data available
Lower No data available
Vapor Pressure No information available

Vapor Density> 1.0Specific Gravity1.04

SolubilitySoluble in waterPartition coefficient; n-octanol/waterNo data availableAutoignition TemperatureNo information availableDecomposition TemperatureNo information availableViscosityNo information available

# 10. Stability and reactivity

Reactive Hazard None known, based on information available

**Stability** Stable under normal conditions.

Conditions to Avoid Excess heat.

Incompatible Materials No information available

Hazardous Decomposition Products Thermal decomposition can lead to release of irritating gases and vapors

**Hazardous Polymerization** Hazardous polymerization does not occur.

Hazardous Reactions None under normal processing.

# 11. Toxicological information

**Acute Toxicity** 

**Product Information** 

Oral LD50

Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg.

Dermal LD50

Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg.

Vapor LC50

Based on ATE data, the classification criteria are not met. ATE > 20 mg/l.

**Component Information** 

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation			
Water	=	Not listed	Not listed			
Sodium carbonate	2800 mg/kg (Rat)	> 2000 mg/kg (rabbit) 2.3 mg/l 2h (Rat)				
Alcohols, C12-14-secondary, ethoxylated	LD50 = 2100 mg/kg (Rat)	Not listed	Not listed			
Tetrasodium EDTA	LD50 = 1658 mg/kg ( Rat ) LD50 = 10 g/kg ( Rat )	Not listed	Not listed			
Polyethylene glycol	LD50 = 28 g/kg (Rat) LD50 = 22 g/kg (Rat)	LD50 > 20 g/kg(Rabbit)	Not listed			
Sodium bicarbonate	LD50 = 4220 mg/kg (Rat)	Not listed	Not listed			

**Toxicologically Synergistic** 

No information available

**Products** 

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation Irritating to eyes

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
Water	7732-18-5	Not listed				
9-Octadecenoic acid (Z)-, compound with 2,2',2"-nitrilotris[ethano l](1:1)	2717-15-9	Not listed				
Sodium carbonate	497-19-8	Not listed				
Alcohols, C12-14-secondary, ethoxylated	84133-50-6	Not listed				
Tetrasodium EDTA	64-02-8	Not listed				
Polyethylene glycol	25322-68-3	Not listed				
Sodium oleate	143-19-1	Not listed				
Sodium bicarbonate	144-55-8	Not listed				

Mutagenic Effects No information available

**Reproductive Effects** No information available.

**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 No information available

delayed

**Endocrine Disruptor Information** No information available

Other Adverse Effects The toxicological properties have not been fully investigated.

## 12. Ecological information

**Ecotoxicity** 

This product contains the following substance(s) which are hazardous for the environment.

Sodium carbonate	EC50: = 242 mg/L, 120h (Nitzschia)	Lepomis macrochirus: LC50: 300 mg/L/96h Gambusia affinis: LC50: 740 mg/L/96h		EC50: = 265 mg/L, 48h (Daphnia magna)
Alcohols, C12-14-secondary, ethoxylated	Not listed	LC50: = 3.2 mg/L, 96h (Pimephales promelas)	Not listed	EC50: = 3.2 mg/L, 48h (water flea)
Tetrasodium EDTA	EC50: = 1.01 mg/L, 72h (Desmodesmus subspicatus)	LC50: = 41 mg/L, 96h static (Lepomis macrochirus) LC50: = 59.8 mg/L, 96h static (Pimephales promelas)	Not listed	EC50: = 610 mg/L, 24h (Daphnia magna)
Polyethylene glycol	Not listed	LC50 = 10 g/L/96h	Not listed	Not listed
Sodium bicarbonate	EC50: 650 mg/L/120h	LC50: 8250 - 9000 mg/L, 96h static (Lepomis macrochirus)	-	EC50: 2350 mg/L/48h

Persistence and Degradability Soluble in water Persistence is unlikely based on information available.

**Bioaccumulation/ Accumulation** No information available.

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

## 13. Disposal considerations

Waste Disposal Methods Chemical waste gene

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

DOTNot regulatedTDGNot regulatedIATANot regulatedIMDG/IMONot regulated

# 15. Regulatory information

### International Inventories

Component	DSL	NDSL	TSCA	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Water	Х	-	Х	231-791-2	-		Χ	-	Х	Х	Χ
9-Octadecenoic acid (Z)-, compound with 2,2',2"-nitrilotris[ethanol](1:1)	Х	-	Х	220-311-7	-		Х	Х	Х	Х	1
Sodium carbonate	Х	-	Х	207-838-8	-		Х	Х	Х	Х	Х
Alcohols, C12-14-secondary, ethoxylated	Х	-	Х	-	-		Х	-	Х	Х	Х
Tetrasodium EDTA	Х	-	Х	200-573-9	-		Х	Х	Х	Х	Х
Polyethylene glycol	Х	-	Х	-	-	500-038 -2	Х	Х	Х	Х	Х
Sodium oleate	Х	-	Х	205-591-0	-		Х	Х	Х	Х	Х
Sodium bicarbonate	Х	-	Х	205-633-8	-		Х	Х	Х	X	Х

### Canada

SDS in compliance with provisions of information as set out in Canadian Standard - Part 4, Schedule 1 and 2 of the Hazardous Products Regulations (HPR) and meets the requirements of the HPR (Paragraph 13(1)(a) of the Hazardous Products Act (HPA)).

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**Revision Summary**This document has been updated to comply with the requirements of WHMIS 2015 to align

with the Globally Harmonised System (GHS) for the Classification and Labelling of

Chemicals.

#### **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 SDS**