

MATERIAL SAFETY DATA SHEET

by Tyco Fire Suppression & Building Products

PLUS-FIFTY C

Product Code: 2011-2-008 ANa Issue Date: 07-30-2010

1. Product and Company Identification

PLUS-FIFTY C Material name

Version # 01

Revision date 07-30-2010 CAS# Mixture

Product Code 2011-2-008 ANa

Product use Fire extiguishing agent

Manufacturer / Importer /

Supplier

Name Tyco Fire Suppression and Building Products

Address One Stanton Street

Marinette, WI 54143-2542

Phone 715-735-7411 Internet http://www.ansul.com

Emergency Phone Number CHEMTREC 800-424-9300 or 703-527-3887

2. Hazards Identification

Emergency overview WARNING

Irritating to eyes and skin.

OSHA regulatory status

This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).

Potential health effects

Routes of exposure Eye contact. Skin contact. Inhalation. Ingestion.

Avoid contact with eyes. Contact with eyes may cause irritation. **Eyes**

Avoid contact with the skin. May cause skin irritation. Skin Inhalation Inhalation of dusts may cause respiratory irritation.

Ingestion Not a likely route of entry. **Target organs** Eyes. Respiratory system. Skin.

Signs and symptoms Irritation of eyes and mucous membranes.

3. Composition / Information on Ingredients

CAS#	Percent
14807-96-6	2.5 - 10
CAS#	Percent
147-14-8	0 - 0.1
63148-57-2	0.1 - 1
8031-18-3	2.5 - 10
144-55-8	90 - 100
	14807-96-6 CAS # 147-14-8 63148-57-2 8031-18-3

4. First Aid Measures

First aid procedures

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if Eye contact

present and easy to do. Continue rinsing. Get medical attention if irritation persists after washing.

Wash off with warm water and soap. Get medical attention if irritation develops and persists. Skin contact

Inhalation Move to fresh air. Get medical attention, if needed.

Material name: PLUS-FIFTY C 1/5

1637 Version #: 01 Revision date: 07-30-2010 F-9754

Rinse mouth. Do not induce vomiting without advice from poison control center. If vomiting Ingestion

occurs, keep head low so that stomach content doesn't get into the lungs.

Notes to physician

Symptoms may be delayed.

General advice

If you feel unwell, seek medical advice (show the label where possible). Ensure that medical

personnel are aware of the material(s) involved, and take precautions to protect themselves.

Show this safety data sheet to the doctor in attendance.

5. Fire Fighting Measures

Flammable properties No unusual fire or explosion hazards noted.

Extinguishing media

Suitable extinguishing

media

This product is not flammable. Use extinguishing agent suitable for type of surrounding fire.

Protection of firefighters

Specific hazards arising from the chemical

None known.

Hazardous combustion

products

Carbon monoxide and carbon dioxide.

6. Accidental Release Measures

Local authorities should be advised if significant spillages cannot be contained. Avoid inhalation of Personal precautions

dust from the spilled material. Wear a dust mask if dust is generated above exposure limits.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not contaminate water.

Methods for containment

If sweeping of a contaminated area is necessary use a dust suppressant agent which does not react with the product. Prevent entry into waterways, sewer, basements or confined areas.

Methods for cleaning up

Should not be released into the environment. Sweep up or vacuum up spillage and collect in suitable container for disposal. Collect dust using a vacuum cleaner equipped with HEPA filter.

Avoid dust formation. Following product recovery, flush area with water.

Other information

Clean up in accordance with all applicable regulations.

7. Handling and Storage

Keep formation of airborne dusts to a minimum. Do not breathe dust. Avoid contact with eyes. Do Handling

not use in areas without adequate ventilation. Wear personal protective equipment. Wash

thoroughly after handling.

Keep container tightly closed. Guard against dust accumulation of this material. Use care in Storage

handling/storage.

8. Exposure Controls / Personal Protection

Occupational exposure limits

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Components	Туре	Value	Form	
talc (Mg3H2(SiO3)4) (14807-96-6)	TWA	2.0000 mg/m3	Respirable fraction.	

U.S. - OSHA

Components	Туре	Value	Form
talc (Mg3H2(SiO3)4) (14807-96-6)	TWA	2.0000 mg/m3	Respirable dust.
		0.1000 mg/m3	Respirable.
		2.4000 mppcf	Respirable.
		0.3000 mg/m3	Total dust.
		20.0000 mppcf	

Engineering controls Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Do not get in eyes. Chemical goggles are recommended. Eye / face protection

No special protective equipment required. Skin protection

Respiratory protection When workers are facing concentrations above the exposure limit they must use appropriate

certified respirators.

Do not get in eyes.

9. Physical & Chemical Properties

Appearance

Form Powder. Color Blue. Odorless. Odor Solid. Physical state

Not available. pН Not available. **Melting point** Freezing point Not available. Not available. **Boiling point** Not available. Flash point **Evaporation rate** Not available. Flammability limits in air, upper, Not available.

% by volume

Flammability limits in air, lower, Not available.

% by volume

Not available. Vapor pressure Vapor density Not available. Not available. Specific gravity Not available. Relative density Solubility (water) Not available. Partition coefficient

(n-octanol/water)

Not available

Auto-ignition temperature Not available. Not available. **Decomposition temperature** VOC Not available.

10. Chemical Stability & Reactivity Information

Material is stable under normal conditions. **Chemical stability**

Incompatible materials Hazardous decomposition

products

Strong acids. Carbon oxides.

11. Toxicological Information

Toxicological information The toxicity of this product has not been tested.

Local effects Contact may irritate or burn eyes.

Chronic effects Hazardous by OSHA criteria. Prolonged inhalation may be harmful.

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. Carcinogenicity

ACGIH Carcinogens

talc (Mg3H2(SiO3)4) (CAS 14807-96-6) A4 Not classifiable as a human carcinogen.

IARC Monographs. Overall Evaluation of Carcinogenicity

talc (Mg3H2(SiO3)4) (CAS 14807-96-6) 2B Possibly carcinogenic to humans.

3 Not classifiable as to carcinogenicity to humans.

12. Ecological Information

Ecotoxicological data

Components **Test Results**

SODIUM BICARBONATE (144-55-8) LC50 Western mosquitofish (Gambusia affinis): 7550 mg/l

96.00 hours

Not expected to be harmful to aquatic organisms. **Ecotoxicity**

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

Not available. Persistence and degradability

13. Disposal Considerations

Disposal instructions This product, in its present state, when discarded or disposed of, is not a hazardous waste

> according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste. Dispose of waste material according to Local, State, Federal, and

Provincial Environmental Regulations.

Waste from residues / unused products

Dispose of in accordance with local regulations.

14. Transport Information

DOT

Not regulated as dangerous goods.

15. Regulatory Information

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication **US federal regulations**

Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

CERCLA/SARA Hazardous Substances - Not applicable.

CERCLA (Superfund) reportable quantity

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Acute Health - Yes

Chronic Health - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

Section 302 extremely hazardous substance

Section 311 hazardous

chemical

No

Inventory status

Country(s) or region	Inventory name On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes
*A "Yes" indicates that all compo	nents of this product comply with the inventory requirements administered by the governing country(s)	

ates that all components of this product comply with the inventory requirements administered by the governing country(s)

State regulations This product does not contain a chemical known to the State of California to cause cancer, birth

defects or other reproductive harm.

US - Pennsylvania RTK - Hazardous Substances: Listed substance

talc (Mg3H2(SiO3)4) (CAS 14807-96-6)

16. Other Information

Further information HMIS® is a registered trade and service mark of the NPCA.

HMIS® ratings Health: 1*

Flammability: 0 Physical hazard: 0

Health: 1 **NFPA** ratings

Flammability: 0 Instability: 0

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.

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