

MATERIAL SAFETY DATA SHEET

FORAY

Product Code: 2001-2-015 ANa

Issue Date: 07-09-2013

1. Product and Company Identification

Material name

FORAY

Version #

02

Revision date

07-09-2013

CAS#

Mixture

Product Code

2001-2-015 ANa

Product use

Fire extinguishing agent

Manufacturer / Importer /

Supplier

Name

Tyco Fire Protection Products

Address

One Stanton Street

Marinette, WI 54143-2542

Phone

715-735-7411

Internet Emergency Phone Number http://www.ansul.com CHEMTREC 800-424-9300 or 703-527-3887

2. Hazards Identification

Emergency overview

WARNING

Irritating to eyes and skin. Prolonged exposure may cause chronic effects.

Potential health effects

Routes of exposure

Eye contact. Skin contact. Inhalation. Ingestion.

Eyes

Contact with eyes may cause irritation.

Skin

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

Inhalation 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
5468-75-7	0 - 0.1
63148-57-2	0.5 - 1.5
471-34-1	1 - 5
8031-18-3	3 - 7
7783-20-2	10 - 30
7722-76-1	60 - 100
	5468-75-7 63148-57-2 471-34-1 8031-18-3 7783-20-2

4. First Aid Measures

First aid procedures

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

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

Skin contact

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

Inhalation Move to fresh air.

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Ingestion

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

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

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

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.

Protective equipment for

firefighters

None known.

Special protective equipment

None known.

for fire-fighters

Explosion data Sensitivity to mechanical

impact

Not available.

Sensitivity to static

Not available.

discharge

Hazardous combustion

products

Carbon monoxide and carbon dioxide.

6. Accidental Release Measures

Do not touch damaged containers or spilled material unless wearing appropriate protective Personal precautions

clothing. Avoid inhalation of dust from the spilled material. Wear a dust mask if dust is generated

above exposure limits.

Environmental precautions

Methods for containment

Do not contaminate water.

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.

Should not be released into the environment. Sweep up or vacuum up spillage and collect in Methods for cleaning up

suitable container for disposal. Collect dust using a vacuum cleaner equipped with HEPA filter. Avoid the generation of dusts during clean-up. Clean up in accordance with all applicable

regulations. Following product recovery, flush area with water.

Other information Clean up in accordance with all applicable regulations.

7. Handling and Storage

Handling Minimize dust generation and accumulation. Provide appropriate exhaust ventilation at places

where dust is formed. Do not breathe dust. Avoid contact with eyes. Wash thoroughly after

handling. Wear personal protective equipment.

Storage Guard against dust accumulation of this material. Use care in handling/storage.

8. Exposure Controls / Personal Protection

Personal protective equipment

Eye / face protection

Wear safety glasses with side shields (or goggles).

Skin protection

Wear chemical protective equipment that is specifically recommended by the manufacturer. It

may provide little or no thermal protection.

Respiratory protection

In the case of respirable dust and/or fumes, use self-contained breathing apparatus.

9. Physical & Chemical Properties

Appearance

Form Color Powder

Yellow.

Odor Physical state Odorless. Solid.

pH

Not available.

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Melting point Not available. Not available. Freezing point Not available. **Boiling point** Not available. Flash point Not available. **Evaporation rate** Flammability limits in air, upper, Not available. % by volume Flammability limits in air, lower, Not available. % by volume Not available. Vapor pressure Not available. Vapor density Not available. Specific gravity Relative density Not available. Solubility (water) Not available. Partition coefficient Not available (n-octanol/water) Not available. Auto-ignition temperature **Decomposition temperature** Not available.

10. Chemical Stability & Reactivity Information

Chemical stability

Material is stable under normal conditions.

Incompatible materials

Strong acids.

Hazardous decomposition

Carbon oxides.

products

11. Toxicological Information

Toxicological information

The toxicity of this product has not been tested.

Chronic effects

Prolonged inhalation may be harmful. Not expected to be hazardous by WHMIS criteria.

12. Ecological Information

Ecotoxicological data

Components	Test Results		
CALCIUM CARBONATE (471-34-1)	LC50 Western mosquitofish (Gambusia affinis): > 56000 mg/l 96.00 Hours		
AMMONIUM HYDROGEN SULFATE (7783-20-2)	EC50 Water flea (Ceriodaphnia dubia): 52 - 67 mg/l 48.00 hours		
	LC50 Pink salmon (Oncorhynchus gorbuscha): 0.068 mg/l		

96.00 hours

Ecotoxicity

This material is not expected to be harmful to aquatic life.

Environmental effects

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

Persistence and degradability

Not available.

Partition coefficient

Not available

(n-octanol/water)

13. Disposal Considerations

Dispose of contents/container in accordance with local/regional/national/international regulations. Disposal instructions

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

Not regulated as dangerous goods.

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15. Regulatory Information

Canadian regulations This product has been classified in accordance with the hazard criteria of the CPR and the MSDS

contains all the information required by the CPR.

WHMIS status Non-controlled

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 Yes

(PICCS)

Toxic Substances Control Act (TSCA) Inventory *A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other Information

United States & Puerto Rico

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

Health: 1* **HMIS®** ratings Flammability: 0

Physical hazard: 0

Health: 1 NFPA ratings

Flammability: 0 Instability: 0

The information provided in this Safety Data Sheet is correct to the best of our knowledge, Disclaimer

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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Yes