

SAFETY DATA SHEET

This SDS complies with REACH 1907/2006 and 2001/58/EC, GHS, OSHA 29CFR 1910.1200

Section 1: Chemical Product and Company Identification

MANUFACTURER'S NAME:
Safety Plus Industries, LLC
32 Woodlake Drive SE
Rochester, MN, 55904

EMERGENCY TELEPHONE
Allen Kronebusch 888-673-4734
Information: 507-367-4545
Fax: 507-258-4420 (not secure)

Safety Data Sheet Competent Person:

support@safetyplusindustries.com

DATE PREPARED: March 29, 2013

REVISION DATE: April 4, 2013

PRODUCT NAME: **STOP-FYRE™**
FORMULA: Preparation/Mixture
PRODUCT USE: Fire Extinguishing Agent

Section 2: Hazards Identification

Regulation (EC) No 1272/2008

GHS Hazard Class

Signal word:
Hazard Statement:

Prevention
Response
Storage
Disposal



Liquefied Gas
Warning
Contains gas under pressure; may explode if heated.
Store in well-ventilated place.

HAZARD CLASSIFICATION: Classified as Hazardous based on IATA, IMO and DOT. Nonflammable compressed gas.
FIRE AND EXPLOSION: Not considered flammable or combustible.
POTENTIAL HEALTH EFFECTS: <0 % of mixture consists of ingredients of unknown acute toxicity
INGESTION: Ingestion is not likely to occur since this material is a gas at room temperature.
INHALATION: Exposure to concentrations of this material above 4% for longer than one minute can cause toxic side effects. These can include dizziness, impaired coordination; reduce mental acuity and cardiac effects. Higher concentrations with longer exposure can cause unconsciousness or even death.
SKIN CONTACT: Systemically toxic concentrations are unlikely to be absorbed through the skin. Evaporation from the skin can produce chilling sensations. Skin injury does not result.
EYE CONTACT: The liquid form of this material can produce chilling sensations and discomfort.
OTHER: None
CHRONIC EFFECTS OF OVEREXPOSURE: None
APPEARANCE: Colorless gas

NFPA Rating:

Component	Health (Blue)	Flammability (Red)	Reactivity (Yellow)	Special (White)
STOP-FYRE™	2	0	0	--

Section 3: Composition, Information on Ingredients

PRODUCT COMPOSITION	APPRX %	ACGIH TLV	OSHA PEL	NIOSH REL	CAS NO.	EINECS/ELINCS	DANGER SYMBOL	RISK PHRASE	DSL CANADA
Component A	TS	----	----	----	TS	Y/N	----	----	Y
Component B	TS	----	----	----	TS	Y/N	----	----	Y
Component C	TS	----	----	----	TS	Y/N	----	----	Y
Component D	TS	----	----	----	TS	Y/N	----	----	Y

Trade Secret (TS) Some items on this MSDS may be designated as trade secrets. Bonafide requests for disclosure of trade secret information to medical personnel must be made in accordance with the provisions contained in 29 CFR 1910.1200 I 1-13.

Section 4: First Aid Measures

INHALATION: Remove to fresh air. If not breathing, provide CPR (cardio pulmonary resuscitation). Get immediate medical attention.

SKIN CONTACT: Immediately flush skin with plenty of soap and water for at least 15 minutes. Remove contaminated clothing.

EYE CONTACT: Immediately flush eyes with plenty of water for at least 15 minutes. If redness, itching, or a burning sensation develops, get medical attention.

INGESTION: If swallowed do not induce vomiting, give large quantities of water to drink. Never give anything to an unconscious person. Get immediate medical attention.

NOTE TO PHYSICIAN: *Product is an asphyxiant and can induce cardiac muscle sensitization to circulating epinephrine-like compounds. Do NOT give adrenalin or similar sympathomimetic drugs. Do NOT allow victim to exercise until 24 hours following specific exposures. Freeze burns of mucosal tissue can develop following specific exposures.*

Section 5: Fire-fighting Measures

This product is an extinguishing media.

FLASH POINT: Not applicable

FLAMMABLE LIMITS IN AIR (% by vol): Not applicable

EXTINGUISHING MEDIA: None

SPECIAL FIREFIGHTING PROCEDURES: Use water to cool fire exposed cylinders or other containers.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Containers are equipped with pressure and temperature relief devices, but rupture may occur under fire conditions and toxic decomposition by-products may be formed if used in fires over 900 °C.
Self-contained breathing apparatus with full face piece and protective clothing when re-entering unventilated fire areas where product is used.

Section 6: Accidental Release Measures

ACTION TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Wear proper protective equipment as specified in Section 8: Exposure Controls/Personal Protection

Evacuate area

Ventilate to outside atmosphere.

Cool or remove hot metal surfaces or source of non-extinguished flames.

Clean up: This product will vaporize and dissipate into the atmosphere.

Disposal method: disposal should be made in accordance with federal, state and local regulations.

DISPOSAL METHOD: disposal should be made in accordance with federal, state and local regulations.

Section 7: Handling and Storage

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

- Store as a liquefied compressed gas in DOT approved pressure vessels away from high temperature.
- If cylinder is not connected to a system, it must be safety capped to protect against actuation of valve and release of agent.
- Keep container closed when not in use.
- Keep away from heat and flame.
- Wear proper protective equipment and avoid contact with skin or eyes
- Follow all applicable local regulations for handling and storage.

INFORMATION ON EMPTIED CONTAINER

- Dispose of this container according to local, state, and federal laws in your country.
- Do not reuse this container. This container may be hazardous when emptied.

SPECIFIC USES:

- This product is intended for use as a fire extinguisher agent.

Section 8: Exposure Controls/Personal Protection

VENTILATION:

Always provide good general, mechanical room ventilation where this chemical/material is used.

SPECIAL VENTILATION CONTROLS:

Use this material inside totally enclosed equipment, or use it with local exhaust ventilation at points where vapors can be released into the workspace air.

RESPIRATORY PROTECTION:

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or the CEN European Standards (EU). Use a NIOSH/MSHA or European Standard (EN) approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

PROTECTIVE GLOVES:

Wear chemical impervious gloves when handling the liquid.

EYE PROTECTION:

Safety glasses or chemical goggles. Full face shield is addition if splashing of liquid form is possible.

PROTECTIVE CLOTHING:

Wear suitable protective clothing to prevent skin contact

OTHER EQUIPMENT:

Make safety shower, eyewash stations, and hand washing equipment available in the work area.

WORK/HYGIENE PRACTICES:

Avoid breathing vapor. Avoid contact with eyes.

Section 9: Physical and Chemical Properties

APPEARANCE - COLOR:

Colorless

PHYSICAL STATE:

Gas

ODOR:

Sweet

PRODUCT CRITERIA

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ODOR THRESHOLD	Not Available for product
PH	Not applicable for product
FLASH POINT:	150 °C Minimum (Open cup)
LOWER EXPLOSIVE LIMIT; UPPER EXPLOSIVE LIMIT	Not applicable for product
FLAMMABILITY (Solid, gas)	Not applicable for product
EXPLOSIVE PROPERTIES	Not applicable for product
OXIDIZING PROPERTIES	Not an oxidizer
SPECIFIC GRAVITY (@25 °C):	1.37--1.83
EVAPORATION RATE:	Not applicable for product
% VOLATILE by VOLUME	Not applicable for product
PARTITION COEFFICIENT	Not applicable for product
AUTO IGNITION TEMPERATURE	Not applicable for product
DECOMPOSITION TEMPERATURE	Not applicable for product
BOILING POINT:	-4 °C (26 °F)
MELTING POINT:	Not applicable for product
VAPOR PRESSURE	37.5 psi @ 70 °F 2270 hPa @ 20°C

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VAPOR DENSITY (AIR = 1)	5.7
SOLUBILITY IN WATER:	Negligible
WATER SOLUBILITY IN THE SOLVENT	Not applicable for product
FREEZING POINT:	Not applicable for product
VISCOSITY	Not applicable for product
VOC CONTENT	Not applicable for product

Section 10: Stability and Reactivity

STABILITY:	Normally Stable
CONDITIONS TO AVOID:	Can be decomposed under fire conditions above 900 °F
INCOMPATIBILITY (MATERIALS TO AVOID):	Active metals and fires involving metal hydrides, strong bases, metallic sodium, potassium or lithium.
HAZARDOUS DECOMPOSITION PRODUCTS:	Combustion or decomposition products include hydrogen fluoride, carbon monoxide, and carbon dioxide.
HAZARDOUS POLYMERIZATION:	Will not occur.

Section 11: Disposal Considerations

WASTE FROM RESIDUES / UNUSED PRODUCTS:
Follow the waste disposal requirements of your country, state, or local authorities.

CONTAMINATED PACKAGING:
Follow the waste disposal requirements of your country, state, or local authorities.

RINSATE: Do not dispose of rinse water containing product in a sanitary sewer system or storm water drainage system.

Section 12: Transport Information

ROAD TRANSPORT:

ADR = International Carriage of Dangerous Goods by Road

UN NUMBER:	UN 1056
DOT PROPER SHIPPING NAME	Compressed Gas
DOT / ADR HAZARD CLASS:	Non-Flammable
DOT / ADR LABELS:	Class 2.2
PLACARD:	Non-Flammable, Class 2
DOT / ADR PACKAGING GROUP:	----

SEA TRANSPORT: IMDG

PROPER SHIPPING NAME	Non-Flammable
UN NUMBER SEA	Compressed Gas
CLASS:	UN 1056
PACKING GROUP:	2.2
EmS No.:	----
MARINE POLLUTANT:	F-C, S-V
SEA TRANSPORT NOTES:	No
	Category A

AIR TRANSPORT: IATA/ICAO

UN NUMBER:	UN 1056
PROPER SHIPPING NAME	Compressed Gas
HAZARD CLASS:	2.2
PACKAGING GROUP:	----

Section 13: Regulatory Information

Directive 67/548/EEC

Under this regulation, compressed and liquefied gases that do not meet any hazard classification have no applicable classification according to

TOXIC SUBSTANCES CONTROL ACT (TSCA) STATUS:

This product is in compliance with rules, regulations, and orders of TSCA.

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SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA) TITLE III SECTION 313 SUPPLIER NOTIFICATION:

This regulation requires submission of annual reports of toxic chemical(s) that appear in section 313 of the Emergency Planning and Community Right To Know Act of 1986 and 40 CFR 372. This information must be included in all MSDS's that are copied and distributed for the material.

The Section 313 toxic chemicals contained in this product are: None

CALIFORNIA PROPOSITION 65:

This regulation requires a warning for California Proposition 65 chemical(s) under the statute.

The California proposition 65 chemical(s) contained in this product are: None

STATE RIGHT-TO-KNOW TOXIC SUBSTANCE OR HAZARDOUS SUBSTANCE LIST:

Florida Toxic Substance(s):	Not listed
Massachusetts's hazardous substance(s):	Not listed
Pennsylvania hazardous substance code(s):	Not listed
New Jersey	Not listed
Illinois	Not listed
Michigan	Not listed

CANADA:

This MSDS/SDS will be non compliant 3 years after the issue date. This MSDS contains all of the information required by the Controlled Products Regulations (CPR).

WHMIS-INFORMATION:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR), SOR/88-66, Current to February 20, 2012. The classes of controlled products listed in the CPR, Section 32, Part IV, have been reviewed and based on Professional Judgment this product has been determined to be WHMIS controlled.

This product is rated Class A—Compressed gas

EUROPEAN UNION:

This product has been reviewed for compliance with the following European Community Directives: REACH 1907/2006; Directive 67/548/EEC, Regulation (EC) No 1272/2008 on classification, labeling and packaging (CLP) of substances and mixtures.

Section 14: Other Information

European Community Hazards Identification:

R:	None
S:	None
Danger Symbol(s):	None

Revision Comments:	Updated from March 29, 2013
Revision Number:	0
Information Sources:	RTECS, REACH, OSHA 29CFR 1910.1200

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