

**Black Widow Dry Chemical Fire Extinguisher**

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**SECTION 1. IDENTIFICATION**

**Product identifier used on the label**

: **Black Widow Dry Chemical Fire Extinguisher**

**Product Code(s)**

: Not available.

**Recommended use of the chemical and restrictions on use**

: Fire Extinguisher  
Recommended restrictions: None Known.

**Chemical family**

: Mixture .

**Name, address, and telephone number of the supplier:**

**Firetrace Aerospace, LLC**

8435 N. 90th Street, Suite 2  
Scottsdale, AZ, USA  
85258

Supplier's Telephone # : 480-607-2709 (Monday to Friday 7 am to 4 pm)

**24 Hr. Emergency Tel #** : 24 Hr. Emergency Tel. # 1-800-662-2927

**Name, address, and telephone number of the manufacturer:**

Refer to supplier

**SECTION 2. HAZARDS IDENTIFICATION**

**Classification of the chemical**

Black powder. Ammonia odor.

Most important hazards: Gas Under Pressure Avoid contact with skin and eyes. Do not breathe dust or fume. Do not ingest.

This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).

Hazard classification :

Gases under pressure - Compressed gas

**Label elements**

*Hazard pictogram(s)*



*Signal Word*

WARNING!

*Hazard statement(s)*

Contains gas under pressure; may explode if heated.

*Precautionary statement(s)*

Protect from sunlight when ambient temperature exceeds 52°C/125°F  
Store in a well-ventilated place.

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**Other hazards**

Other hazards which do not result in classification: Direct eye contact may cause slight redness.

Ecological information:

Not expected to be harmful to aquatic organisms. See Section 12 for more environmental information.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Mixture

<u>Chemical name</u>	<u>Common name and synonyms</u>	<u>CAS #</u>	<u>Concentration(% by weight)</u>
Potassium carbamoylcarbamate	Not available.	26479-35-6	50.0 - 70.0
Ferric oxide, black	Not available.	1317-61-9	27.0 - 30.0
Iron(III)Oxide	Ferric oxide Diiron trioxide	1309-37-1	27.0 - 30.0
Amorphous silica	Silicon dioxide	7631-86-9	2.0 - 4.0
Mica	Not available.	12001-26-2	1.0 - 3.0
Nitrogen	nitrogen gas	7727-37-9	1.0 - 3.0
Helium	Not available.	7440-59-7	0.0 - 1.0
Silica, amorphous treated	Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica	68909-20-6	0.1 - 1.0

The exact concentrations and/or specific chemical identities of the above listed chemicals are being withheld as a trade secret.

**SECTION 4. FIRST-AID MEASURES**

**Description of first aid measures**

- Ingestion* : If swallowed, DO NOT induce vomiting. Seek medical attention if discomfort occurs.
- Inhalation* : Wear personal protective equipment. Immediately remove person to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen by qualified medical personnel only. Get medical attention if irritation develops and persists.
- Skin contact* : Flush skin with large amounts of water. If skin irritation occurs, get medical attention.
- Eye contact* : Flush eyes with water for at least 15 minutes. If eye irritation persists, consult a specialist.

**Most important symptoms and effects, both acute and delayed**

- : Direct eye contact may cause slight redness. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Inhalation of dust may cause shortness of breath, tightness of the chest, a sore throat and cough.

**Indication of any immediate medical attention and special treatment needed**

- : Provide general supportive measures and treat symptomatically.

**SECTION 5. FIRE-FIGHTING MEASURES**

**Extinguishing media**

- Suitable extinguishing media* : Use media suitable to the surrounding fire such as water fog or fine spray, alcohol foams, carbon dioxide and dry chemical.
- Unsuitable extinguishing media* : Do not use a solid water stream as it may scatter and spread the fire.

**Special hazards arising from the substance or mixture / Conditions of flammability**

- : Not flammable under normal conditions of use. Closed containers are contained under pressure and may explode if exposed to excess heat for a prolonged period of time.

**Hazardous combustion products**

- : None known.

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**Special protective equipment and precautions for firefighters**

*Protective equipment for fire-fighters*

- : Firefighter should wear full protective clothing including self contained breathing apparatus.

*Special fire-fighting procedures*

- : Evacuate personnel to safe areas. Move containers from fire area if safe to do so. Shield personnel to protect from venting or rupturing containers. Cool closed containers exposed to fire with water spray.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures**

- : Restrict access to area until completion of clean-up. Keep all other personnel upwind and away from the spill/release. Ensure clean-up is conducted by trained personnel only. All persons dealing with clean-up should wear the appropriate protective equipment including self-contained breathing apparatus. Refer to Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION, for additional information on acceptable personal protective equipment.

**Environmental precautions** : Ensure spilled product does not enter confined areas.

**Methods and material for containment and cleaning up**

- : Ventilate area of release. Do not enter confined spaces unless adequately ventilated. Eliminate all ignition sources. Stop spill or leak at source if safely possible. Sweep up or vacuum up spillage and collect in suitable container for disposal. Notify the appropriate authorities as required.

**SECTION 7. HANDLING AND STORAGE**

**Precautions for safe handling**

- : Do not handle until all safety precautions have been read and understood. Contents under pressure. Do not puncture or incinerate containers. Use only in well-ventilated areas. Avoid breathing dust and fume. Wash hands thoroughly after using this product, and before eating, drinking or smoking. Keep away from extreme heat and flame. Keep away from incompatibles.

**Conditions for safe storage** : Store in a cool, dry, well ventilated area, away from heat and ignition sources. Do not store in direct sunlight. Protect from sunlight when ambient temperature exceeds 52°C/125°F Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks.

**Incompatible materials** : Strong acids and oxidizing agents

**SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Exposure Limits:**

<u>Chemical Name</u>	<u>ACGIH TLV</u>		<u>OSHA PEL</u>	
	<u>TWA</u>	<u>STEL</u>	<u>PEL</u>	<u>STEL</u>
Potassium carbamoylcarbamate	N/Av	N/Av	N/Av	N/Av
Ferric oxide, black	5ppm (respirable) 10 ppm (total dust)	N/Av	N/Av	N/Av
Iron(III)Oxide	5 mg/m <sup>3</sup> (respirable)	N/Av	10 mg/m <sup>3</sup> (fume); 15 mg/m <sup>3</sup> (total dust); 5 mg/m <sup>3</sup> (respirable)	N/Av

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Amorphous silica	10 mg/m <sup>3</sup> (inhalable); 3 mg/m <sup>3</sup> (respirable) (as PNOS)	N/Av	20 mppcf	N/Av
Mica	3 mg/m <sup>3</sup> (respirable)	N/Av	20 mppcf	N/Av
Nitrogen	N/Av	N/Av	N/Av	N/Av
Helium	N/Av	N/Av	N/Av	N/Av
Silica, amorphous treated	N/Av	N/Av	N/Av	N/Av

**Exposure controls**

**Ventilation and engineering measures**

: Provide exhaust ventilation or other engineering controls to keep the airborne concentration of vapours below their respective threshold limit value. Recommended monitoring procedures: Provide sufficient air exchange and/or exhaust in work rooms.

**Respiratory protection**

: If engineering controls and work practices are not effective in controlling exposure to this material, then wear suitable approved respiratory protection. Confirmation of which type of respirator is most suitable for the intended application should be obtained from respiratory protection suppliers.

**Skin protection**

: Wear protective gloves. Advice should be sought from glove suppliers.

**Eye / face protection**

: Chemical splash goggles are recommended to prevent dusts from entering the eyes.

**Other protective equipment**

: An eyewash station and safety shower should be made available in the immediate working area. Other equipment may be required depending on workplace standards.

**General hygiene considerations**

: Avoid breathing dust and fume. Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practice.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

- Appearance** : Black powder.
- Odour** : Ammonia odor.
- Odour threshold** : Not available.
- pH** : 8 to 9
- Melting/Freezing point** : Not available.
- Initial boiling point and boiling range** : Not available.
- Flash point** : Non-flammable.
- Flashpoint (Method)** : N/Ap
- Evaporation rate (BuAe = 1)** : N/Ap
- Flammability (solid, gas)** : Not flammable.
- Lower flammable limit (% by vol.)** : N/Ap
- Upper flammable limit (% by vol.)** : N/Ap
- Oxidizing properties** : None known.
- Explosive properties** : Not explosive.
- Vapour pressure** : 1446 to 2584 kPa (10845 to 19380 mmHg) @ 23°C (73.4°F) .
- Vapour density** : Not available.
- Relative density / Specific gravity** : >1 kg/L
- Solubility in water** : Insoluble.
- Other solubility(ies)** : Not available.
- Partition coefficient: n-octanol/water or Coefficient of water/oil distribution** : Not available.

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Auto-ignition temperature : N/Ap  
Decomposition temperature : N/Ap  
Viscosity : N/Av  
Volatiles (% by weight) : N/Ap  
Volatile organic Compounds (VOC's)  
: N/Ap  
Absolute pressure of container  
: N/Av  
Flame projection length : N/Ap  
Other physical/chemical comments  
: None known or reported by the manufacturer.

**SECTION 10. STABILITY AND REACTIVITY**

Reactivity : Not normally reactive.  
Chemical stability : Stable under normal conditions.  
Possibility of hazardous reactions  
: No dangerous reaction known under conditions of normal use. Hazardous polymerization does not occur.  
Conditions to avoid : Protect from sunlight. Heat, sparks and open flames, electrical and static discharge. Ensure adequate ventilation, especially in confined areas. Incompatible materials  
Incompatible materials : Strong acids and oxidizing agents  
Hazardous decomposition products  
: None known, refer to hazardous combustion products in Section 5.

**SECTION 11. TOXICOLOGICAL INFORMATION**

**Information on likely routes of exposure:**

Routes of entry inhalation : YES  
Routes of entry skin & eye : NO  
Routes of entry Ingestion : NO  
Routes of exposure skin absorption  
: NO

**Potential Health Effects:**

**Signs and symptoms of short-term (acute) exposure**

*Sign and symptoms Inhalation*

: Inhalation of dust may cause shortness of breath, tightness of the chest, a sore throat and cough.

*Sign and symptoms ingestion*

: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

*Sign and symptoms skin*

: Direct skin contact may cause slight or mild, transient irritation.

*Sign and symptoms eyes*

: Direct eye contact may cause slight or mild, transient irritation.

**Potential Chronic Health Effects**

: Long-term inhalation of dusts may cause persistent adverse effects on the lungs (e.g. inflammation, fibrosis, changes to alveolar cells), which are believed to result from dust overloading.

**Mutagenicity** : Not expected to be mutagenic in humans.

**Carcinogenicity** : No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.

**Reproductive effects & Teratogenicity**

: Not expected to have other reproductive effects.

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**Sensitization to material** : Not expected to be a skin or respiratory sensitizer.

**Specific target organ effects** : The substance or mixture is not classified as specific target organ toxicant, single exposure.

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

**Medical conditions aggravated by overexposure**

: Pre-existing skin, eye and respiratory disorders.

**Synergistic materials**

: No information available.

**Toxicological data**

: Not classified for acute toxicity based on available data. See below for toxicological data on the substance.

<u>Chemical name</u>	<u>LC<sub>50</sub>(4hr)</u>	<u>LD<sub>50</sub></u>	
	<u>inh, rat</u>	<u>(Oral, rat)</u>	<u>(Rabbit, dermal)</u>
Potassium carbamoylcarbamate	>2.26 mg/L	>2000mg/kg	>2000 mg/kg
Ferric oxide, black	N/Av	>5000 mg/kg	>2000 mg/kg
Iron(III)Oxide	N/Av	> 10 000 mg/kg	N/Av
Amorphous silica	N/Av	3160 mg/kg	> 5000 mg/kg
Mica	N/Av	> 15 000 mg/kg	N/Av
Nitrogen	N/Av	N/Av	N/Av
Helium	N/Av	N/Av	N/Av
Silica, amorphous treated	N/Av	> 5000 mg/kg	N/Av

**Other important toxicological hazards**

: None known.

**SECTION 12. ECOLOGICAL INFORMATION**

**Ecotoxicity** : Not expected to be harmful to aquatic organisms. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

**Ecotoxicity data:**

<u>Ingredients</u>	<u>CAS No</u>	<u>Toxicity to Fish</u>		
		<u>LC50 / 96h</u>	<u>NOEC / 21 day</u>	<u>M Factor</u>
Potassium carbamoylcarbamate	26479-35-6	N/Av	N/Av	None.
Ferric oxide, black	1317-61-9	N/Av	N/Av	None.
Iron(III)Oxide	1309-37-1	> 50 000, < 100 000 mg/L (Zebra fish)	N/Av	None.
Amorphous silica	7631-86-9	N/Av	N/Av	None.
Mica	12001-26-2	N/Av	N/Av	N/Av
Nitrogen	7727-37-9	N/Av	N/Av	None.
Helium	7440-59-7	N/Av	N/Av	None.

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Silica, amorphous treated	68909-20-6	> 10 000mg/L (Zebra fish)	N/Av	None.
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<u>Ingredients</u>	CAS No	Toxicity to Daphnia		
		EC50 / 48h	NOEC / 21 day	M Factor
Potassium carbamoylcarbamate	26479-35-6	N/Av	N/Av	None.
Ferric oxide, black	1317-61-9	N/Av	N/Av	None.
Iron(III)Oxide	1309-37-1	> 100 mg/L (Daphnia magna)	N/Av	None.
Amorphous silica	7631-86-9	N/Av	N/Av	None.
Mica	12001-26-2	N/Av	N/Av	N/Av
Nitrogen	7727-37-9	N/Av	N/Av	None.
Helium	7440-59-7	N/Av	N/Av	None.
Silica, amorphous treated	68909-20-6	> 10 000 mg/L/24hr (Daphnia magna)	N/Av	None.

<u>Ingredients</u>	CAS No	Toxicity to Algae		
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor
Potassium carbamoylcarbamate	26479-35-6	N/Av	N/Av	None.
Ferric oxide, black	1317-61-9	N/Av	N/Av	None.
Iron(III)Oxide	1309-37-1	N/Av	N/Av	None.
Amorphous silica	7631-86-9	N/Av	N/Av	None.
Mica	12001-26-2	N/Av	N/Av	N/Av
Nitrogen	7727-37-9	N/Av	N/Av	None.
Helium	7440-59-7	N/Av	N/Av	None.
Silica, amorphous treated	68909-20-6	> 10 000 mg/L/72hr	N/Av	None.

**Persistence and degradability**

: No information available.

**Bioaccumulation potential**

: No information available.

<u>Components</u>	<u>Partition coefficient n-octanol/ater (log Kow)</u>	<u>Bioconcentration factor (BCF)</u>
Potassium carbamoylcarbamate (CAS 26479-35-6)	N/Av	N/Av
Ferric oxide, black (CAS 1317-61-9)	N/Av	N/Av
Iron(III)Oxide (CAS 1309-37-1)	N/Av	N/Av
Amorphous silica (CAS 7631-86-9)	N/Av	no bioaccumulation expected
Mica (CAS 12001-26-2)	N/Av	N/Av
Nitrogen (CAS 7727-37-9)	N/Av	N/Av

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Helium (CAS 7440-59-7)	N/Ap	N/Ap
Silica, amorphous treated (CAS 68909-20-6)	N/Ap	N/Ap

**Mobility in soil** : No information available.





**Other Adverse Environmental effects**  
: No information available.

**SECTION 13. DISPOSAL CONSIDERATIONS**

**Handling for Disposal** : Handle in accordance with good industrial hygiene and safety practice. See Section 7 (Handling and Storage) for further details. Allow to safely dissipate into atmosphere. Do not puncture or incinerate containers.

**Methods of Disposal** : Dispose in accordance with all applicable federal, state, provincial and local regulations.

**SECTION 14. TRANSPORT INFORMATION**

Regulatory Information	UN Number	UN proper shipping name	Transport hazard class(es)	Packing Group	Label
IMDG	UN1044	FIRE EXTINGUISHERS	2.2	none	
<b>IMDG Additional information</b>	Consult the IMDG regulations for exceptions.				
TDG	UN1044	FIRE EXTINGUISHERS	2.2	none	
<b>TDG Additional information</b>	Please consult the TDG guidelines for further information.				
49CFR/DOT	UN1044	Fire Extinguishers	2.2	none	
<b>49CFR/DOT Additional information</b>	Consult 49CFR 173.309 for more information.				
ICAO/IATA	UN1044	Fire extinguishers	2.2	none	
<b>ICAO/IATA Additional information</b>	Refer to ICAO/IATA Packing Instruction				

**Special precautions for user** : Keep away from extreme heat and flame. Appropriate advice on safety must accompany the package.

**Environmental hazards** : This substance does not meet the criteria for an environmentally hazardous substance according to the IMDG Code. See ECOLOGICAL INFORMATION, Section 12.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

: This information is not available.



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**SECTION 15 - REGULATORY INFORMATION**

**Canadian Information:**

WHMIS information: Refer to Section 2 for a WHMIS Classification for this product. All ingredients listed appear on the Domestic Substances List (DSL) except: CAS#26479-35-6

**US Federal Information:**

SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes: Gas Under Pressure Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds or the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

**International Information:**

Components listed below are present on the following International Inventory list:

<u>Ingredients</u>	<u>CAS #</u>	<u>European EINECs</u>	<u>Australia AICS</u>	<u>Philippines PICCS</u>	<u>Japan ENCS</u>	<u>Korea KECI/KECL</u>	<u>China IECSC</u>	<u>NewZealand IOC</u>
Potassium carbamoylcarbamate	26479-35-6	247-728-7	Present	N/Av	(2)-1210	N/Av	N/Av	N/Av
Ferric oxide, black	1317-61-9	215-277-5	Present	Present	(1)-357	KE-34314	Present	N/Av
Iron(III)Oxide	1309-37-1	215-168-2	Present	Present	(5)-5189; (5)-5188; (5)-5163; (1)-357; (1)-1073	KE-10897	Present	May be used as a single component chemical under an appropriate group standard.
Amorphous silica	7631-86-9	231-545-4	Present	Present	(1)-548	KE-31032	Present	May be used as a single component chemical under an appropriate group standard.
Mica	12001-26-2	None. This chemical may be grouped under the name 'Naturally occurring substances' with the following EINECs number: 310-127-6	Present	Present	Not listed	KE-25420	Present	May be used as a single component chemical under an appropriate group standard.
Nitrogen	7727-37-9	231-783-9	Present	Present	N/Av	KE-25994	Present	HSR001027
Helium	7440-59-7	231-168-5	Present	Present	N/Av	KE-18199	Present	HSR001024
Silica, amorphous treated	68909-20-6	272-697-1	Present	Present	(1)-548	KE-34696	Present	May be used as a single component chemical under an appropriate group standard.

**SECTION 16. OTHER INFORMATION**

**Legend**

: ACGIH: American Conference of Governmental Industrial Hygienists  
AICS: Australian Inventory of Chemical Substances

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CA: California  
CAS: Chemical Abstract Services  
CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980  
EC50: Effective Concentration 50%  
EINECS: European Inventory of Existing Commercial chemical Substances  
ENCS: Existing and New Chemical Substances  
EPA: Environmental Protection Agency  
HSDB: Hazardous Substances Data Bank  
IARC: International Agency for Research on Cancer  
IECSC: Inventory of Existing Chemical Substances  
Inh: Inhalation  
IOC: Inventory of Chemicals  
KECI: Korean Existing Chemicals Inventory  
KECL: Korean Existing Chemicals List  
LC: Lethal Concentration  
LD: Lethal Dose  
MA: Massachusetts  
MN: Minnesota  
N/Ap: Not Applicable  
N/Av: Not Available  
NIOSH: National Institute of Occupational Safety and Health  
NJ: New Jersey  
NOEC: No observable effect concentration  
NTP: National Toxicology Program  
OECD: Organisation for Economic Co-operation and Development  
OSHA: Occupational Safety and Health Administration  
PA: Pennsylvania  
PEL: Permissible exposure limit  
PICCS: Philippine Inventory of Chemicals and Chemical Substances  
RCRA: Resource Conservation and Recovery Act  
RI: Rhode Island  
RQ: Reportable Quantity  
RTECS: Registry of Toxic Effects of Chemical Substances  
SARA: Superfund Amendments and Reauthorization Act  
SCBA: Self-Contained Breathing Apparatus  
STEL: Short Term Exposure Limit  
TDG: Canadian Transportation of Dangerous Goods Act & Regulations  
TLV: Threshold Limit Values  
TSCA: Toxic Substance Control Act  
TWA: Time Weighted Average  
WHMIS: Workplace Hazardous Materials Identification System

**References**

- : 1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices for 2016  
2. International Agency for Research on Cancer Monographs, searched 2017  
3. Canadian Centre for Occupational Health and Safety, CChemoWeb databases, 2017(Chempendium, HSDB and RTECs).  
4. Material Safety Data Sheets from manufacturer.  
5. US EPA Title III List of Lists - 2017 version.  
6. California Proposition 65 List - 2017 version.  
7. OECD - The Global Portal to Information on Chemical Substances - eChemPortal,2017.

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**Other special considerations for handling**

: Provide adequate information, instruction and training for operators.

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<p><b>Prepared for:</b> Firetrace Aerospace, LLC 8435 N. 90th Street, Suite 2 Scottsdale, AZ 85258 Telephone: 480-607-2709 www.ftaero.com Info@ftaero.com</p>	
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