

WIRELOCK BOOSTER PACK

ST-R-WIR

SDS Preparation Date (mm/dd/yyyy): 08/05/2015

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SAFETY DATA SHEET

SECTION 1. IDENTIFICATION

Product identifier used on the label

: **WIRELOCK BOOSTER PACK**

Product Code(s)

: ST-R-WIR

Recommended use of the chemical and restrictions on use

: Accelerator used for attaching wire rope to a socket.
No restrictions on use known.

Chemical family

: Mixture of: Organic peroxides (20%); Inert fillers.

Name, address, and telephone number of the manufacturer:

Millfield Enterprises Limited

16 Shelley Road
Newburn Industrial Estate, Newburn
Newcastle Upon Tyne NE15 9RT
England

Manufacturer's Telephone # : (0191) 264 8541

Name, address, and telephone number of the supplier:

STRIDER-RESOURCE A Division of the O'Rourke Marketing Corporation Ltd.

5667 King Road
Nobleton, ON, Canada
LOG 1N0

Supplier's Telephone # : (905) 859-3901

24 Hr. Emergency Tel # : Not available.

SECTION 2. HAZARDS IDENTIFICATION

Classification of the chemical

This material is classified as hazardous under Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).
Classification:

Organic peroxides - Type: G
Eye Irritant - Category 2B
Skin sensitization - Category 1

Label elements

Hazard pictogram(s)



Signal Word

Warning!

Hazard statement(s)

Causes eye irritation.
May cause an allergic skin reaction.

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Precautionary statement(s)

Avoid breathing dust, fume or vapors.
Wash hands and face thoroughly after handling.
Contaminated work clothing should not be allowed out of the workplace.
Wear protective gloves.

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.
If on skin: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.

Dispose of contents/container in accordance with local regulation.

Other hazards

Other hazards which do not result in classification:

Fine dust dispersed in air may ignite. Toxic fumes may be released during a fire. May be mildly irritating to skin and respiratory system. May cause gastrointestinal irritation.

Environmental precautions: Very toxic to aquatic life. Avoid release to the environment. See Section 12 for more environmental information.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Chemical name</u>	<u>Common name and synonyms</u>	<u>CAS #</u>	<u>Concentration</u>
Dibenzoyl peroxide	benzoyl peroxide	94-36-0	20.0 - 21.0

SECTION 4. FIRST-AID MEASURES

Description of first aid measures

- Ingestion* : Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention if symptoms persist.
- Inhalation* : Move to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen by qualified medical personnel only. If irritation or symptoms develop, seek medical attention.
- Skin contact* : If on skin: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.
- Eye contact* : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Flush eyes with water for at least 15 minutes. If eye irritation persists: get medical advice/attention.

Most important symptoms and effects, both acute and delayed

- : Causes eye irritation. Symptoms may include tearing, redness and discomfort. May cause an allergic skin reaction (e.g. swelling, rash and eczema). May be mildly irritating to skin and respiratory system. Direct skin contact may cause temporary redness. Inhalation of dust may cause shortness of breath, tightness of the chest, a sore throat and cough.
- : Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Ingestion of larger amounts may cause defects to the central nervous system (e.g. dizziness, headache).

Indication of any immediate medical attention and special treatment needed

- : Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media

- Suitable extinguishing media* : Use water fog or fine spray.

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Unsuitable extinguishing media

- : Some chemical extinguishing agents may react with this material.

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

- : Organic peroxide - Type G. Organic peroxides will burn vigorously with the potential for explosion. Contains oxidizers, which may increase the burning rate of combustible materials with flare-burning effect. Toxic fumes, gases or vapours may evolve on burning.

Hazardous combustion products

- : Carbon oxides; Benzoic acid; Benzene; Nitrous gases; Terphenyls; Biphenyls.

Special protective equipment and precautions for firefighters

Protective equipment for fire-fighters

- : Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Special fire-fighting procedures

- : Fight fires from a safe distance. Move containers from fire area if safe to do so. Water spray may be useful in cooling equipment exposed to heat and flame. Do not allow run-off from fire fighting to enter drains or water courses. Dike for water control.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

- : All persons dealing with the clean-up should wear the appropriate chemically protective equipment. Keep all other personnel upwind and away from the spill/release. Restrict access to area until completion of clean-up. For personal protection see section 8.

Environmental precautions : Ensure spilled product does not enter drains, sewers, waterways, or confined spaces.

Methods and material for containment and cleaning up

- : Ventilate area of release. Remove all sources of ignition. Pick up and transfer to properly labeled containers. Use methods that do not generate dusts. Flush spill area with water. Do not flush into surface water or sanitary sewer system. Refer to Section 13 for disposal of contaminated material. Notify the appropriate authorities as required.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

- : Use in a well-ventilated area. Wear suitable protective equipment during handling. Avoid breathing dust. Avoid contact with skin, eyes and clothing. Keep away from heat and flame. Keep away from combustible material. Keep away from acids and other incompatibles. Avoid and control operations which create dust. Keep containers tightly closed when not in use. Protect against physical damage. Containers of this material may still retain hazardous residues even when emptied. Wash thoroughly after handling.

Conditions for safe storage

- : Store in a cool, dry, well-ventilated area. Store away from incompatibles and out of direct sunlight. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. No smoking in the area. Use only Stainless steel 316, PP, polyethylene or glass-lined equipment. Recommended storage temperature: < 25°C.

Incompatible materials

- : Acids; Strong oxidizing agents; Metals; Strong oxidizing agents; Amines; Metal oxides; Combustible materials.; Polymerization catalysts & accelerators.

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SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<u>Exposure Limits:</u>				
<u>Chemical Name</u>	<u>ACGIH TLV</u>		<u>OSHA PEL</u>	
	<u>TWA</u>	<u>STEL</u>	<u>PEL</u>	<u>STEL</u>
Dibenzoyl peroxide	5 mg/m ³	N/Av	5 mg/m ³	N/Av

Exposure controls

Ventilation and engineering measures

: Use general or local exhaust ventilation to maintain air concentrations below recommended exposure limits. An explosion-proof local exhaust system is acceptable.

Respiratory protection

: Where occupational exposure limits are exceeded, wear a suitable, NIOSH-approved particulate respirators (N95 or better). Advice should be sought from respiratory protection specialists. Respirators should be selected based on the form and concentration of contaminants in air, and in accordance with CSA Z94.4-02.

Skin protection

: Impervious gloves must be worn when using this product. 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

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

General hygiene considerations

: Handle in accordance with good industrial hygiene and safety practice. Avoid breathing dust, fume or vapors. Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Wash thoroughly after handling.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : White powder

Odour : Faint odour.

Odour threshold : N/Av

pH : N/Av

Melting/Freezing point : N/Av

Initial boiling point and boiling range

: N/Av (Decomposes)

Flash point : N/Av

Flashpoint (Method) : N/Av

Evaporation rate (BuAe = 1) : N/Av

Flammability (solid, gas) : Not considered flammable.

Lower flammable limit (% by vol.)

: N/Av

Upper flammable limit (% by vol.)

: N/Av

Oxidizing properties

: Contains an organic peroxide. Organic peroxides will burn vigorously with the potential for explosion.

Explosive properties

: Not explosive

Vapour pressure

: N/Av

Vapour density

: N/Av

Relative density / Specific gravity

: 2.29

Solubility in water

: Insoluble.

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Other solubility(ies) : N/Av
Partition coefficient: n-octanol/water or Coefficient of water/oil distribution
: N/Av
Auto-ignition temperature : N/Av
Decomposition temperature : 70°C (SADT)
Viscosity : N/Av
Volatiles (% by weight) : N/Av
Volatile organic Compounds (VOC's)
: N/Av
Absolute pressure of container
: N/Av
Flame projection length : N/Av
Other physical/chemical comments
: Active oxygen content: 1.32%
Peroxide content: 20%

SECTION 10. STABILITY AND REACTIVITY

Reactivity : Not normally reactive.
Chemical stability : A dangerous self-accelerating decomposition reaction and, under certain circumstances, explosion or fire can be caused by thermal decomposition at and above the following temperature: 70°C. Contact with incompatible substances can cause decomposition at or below the SADT
Possibility of hazardous reactions
: Hazardous polymerization does not occur.
Conditions to avoid : Ensure adequate ventilation, especially in confined areas. Avoid heat, open flames, sparks, static electricity and electrical equipment. Avoid shock and friction. To protect quality, store below 25°C.
Incompatible materials : Acids; Strong oxidizing agents; Metals; Strong oxidizing agents; Amines; Metal oxides; Combustible materials.; Polymerization catalysts & accelerators.
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 : YES
Routes of entry Ingestion : YES
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.

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Sign and symptoms ingestion

: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Ingestion of larger amounts may cause defects to the central nervous system (e.g. dizziness, headache).

Sign and symptoms skin

: Direct skin contact may result in little or no irritation. May cause irritation, redness and pain.

Sign and symptoms eyes

: This material is classified as hazardous under Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015). Classification: Eye damage/irritation - Category 2B. Causes eye irritation.

Potential Chronic Health Effects

: None known or reported by the manufacturer.

Mutagenicity

: Not expected to be mutagenic in humans.

Carcinogenicity

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

Reproductive effects & Teratogenicity

: This product is not expected to cause reproductive or developmental effects.

Sensitization to material

: This material is classified as hazardous under Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015). Classification: Skin sensitization - Category 1 May cause an allergic skin reaction (e.g. swelling, rash and eczema).
No data available to indicate product or components may be respiratory sensitizers.

Specific target organ effects

: Not classified as a specific target organ toxicity-repeated exposure.
Not classified as a specific target organ toxicity-single exposure.

Medical conditions aggravated by overexposure

: Pre-existing skin, eye and respiratory disorders.

Synergistic materials

: None known or reported by the manufacturer.

Toxicological data

: There is no available data for the product itself, only for the ingredients. See below for individual ingredient acute toxicity data.

<u>Chemical name</u>	<u>LC₅₀ (4hr)</u> <u>inh, rat</u>	<u>LD₅₀</u>	
		<u>(Oral, rat)</u>	<u>(Rabbit, dermal)</u>
Dibenzoyl peroxide	> 24.3 mg/L (dust) (No mortality)	> 5000 mg/kg	N/Av

Other important toxicological hazards

: None known or reported by the manufacturer.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

: Very toxic to aquatic life. There is no data available for this product. The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters. The product contains the following substances which are hazardous for the environment: Dibenzoyl peroxide.

See the following tables for individual ingredient ecotoxicity data.

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>
Dibenzoyl peroxide	94-36-0	0.24 mg/L (Japanese ricefish)	N/Av	1

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<u>Ingredients</u>	CAS No	Toxicity to Daphnia		
		EC50 / 48h	NOEC / 21 day	M Factor
Dibenzoyl peroxide	94-36-0	0.07 mg/L (Daphnia magna)	N/Av	10

<u>Ingredients</u>	CAS No	Toxicity to Algae		
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor
Dibenzoyl peroxide	94-36-0	0.44 mg/L/72hr (Green algae)	N/Av	1

Persistence and degradability

- : No data is available on the product itself. Contains Dibenzoyl peroxide. Dibenzoyl peroxide is readily biodegradable (OECD TG 301C: 83% by BOD after 21 days) and hydrolyses rapidly in water.

Bioaccumulation potential

- : No data is available on the product itself. See the following data for ingredient information.

<u>Components</u>	<u>Partition coefficient n-octanol/water (log Kow)</u>	<u>Bioconcentration factor (BCF)</u>
Dibenzoyl peroxide (CAS 94-36-0)	3.43	92

Mobility in soil

- : No data is available on the product itself.

Other Adverse Environmental effects

- : No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

SECTION 13. DISPOSAL CONSIDERATIONS


Handling for Disposal

- : Handle waste according to recommendations in Section 7. Empty containers retain residue (liquid and/or vapour) and can be dangerous. Do not cut, weld, drill or grind on or near this container.

Methods of Disposal

- : Dispose of in accordance with federal, provincial and local hazardous waste laws.

SECTION 14. TRANSPORTATION INFORMATION

Regulatory Information	UN Number	UN proper shipping name	Transport hazard class(es)	Packing Group	Label
TDG	UN3077	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Dibenzoyl peroxide)	9	III	
TDG Additional information	This material may be shipped as an exempted marine pollutant in accordance with TDG Section 1.45.1 and Special Provision 99.				

Special precautions for user

- : Appropriate advice on safety must accompany the package.

Environmental hazards

- : This product meets the criteria for an environmentally hazardous material according to the IMDG Code. Avoid release to the environment. See Section 12 for more environmental information.

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:

Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on the Domestic Substances List (DSL).

Canadian National Pollutant Release Inventory (NPRI): This product contains the following substances listed on the NPRI:
Dibenzoyl peroxide (Part 1, Group A Substance)

WHMIS information: Refer to Section 2 for a WHMIS Classification for this product.

US Federal Information:

TSCA: All listed ingredients appear on the Toxic Substances Control Act (TSCA) inventory.

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>
Dibenzoyl peroxide	94-36-0	202-327-6	Present	Present	(3)-1349	KE-09889	Present	HSR001372, HSR007398 (dilution)

SECTION 16. OTHER INFORMATION

Legend

- : ACGIH: American Conference of Governmental Industrial Hygienists
- AICS: Australian Inventory of Chemical Substances
- CAS: Chemical Abstract Services
- CSA: Canadian Standards Association
- EC50: Effective Concentration 50%.
- EINECS: European Inventory of Existing Commercial chemical Substances
- ENCS: Existing and New Chemical Substances
- HSDB: Hazardous Substances Data Bank
- IARC: International Agency for Research on Cancer
- IBC: Intermediate Bulk Container
- IECSC: Inventory of Existing Chemical Substances
- IMDG: International Maritime Dangerous Goods
- Inh: Inhalation
- IOC: Inventory of Chemicals
- KECI: Korean Existing Chemicals Inventory
- KECL: Korean Existing Chemicals List
- LC: Lethal Concentration
- LD: Lethal Dose
- N/Ap: Not Applicable
- N/Av: Not Available
- NIOSH: National Institute of Occupational Safety and Health
- NOEC: No observable effect concentration
- NTP: National Toxicology Program
- OECD: Organisation for Economic Co-operation and Development
- OSHA: Occupational Safety and Health Administration
- PEL: Permissible exposure limit
- PICCS: Philippine Inventory of Chemicals and Chemical Substances
- RTECS: Registry of Toxic Effects of Chemical Substances
- SADT: Self Accelerating Decomposition Temperature
- SCBA: Self-Contained Breathing Apparatus

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STEL: Short Term Exposure Limit
TDG: Canadian Transportation of Dangerous Goods Act & Regulations
TLV: Threshold Limit Values
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 2015.
- 2. International Agency for Research on Cancer Monographs, searched 2015.
- 3. Canadian Centre for Occupational Health and Safety, CCIInfoWeb databases, 2015 (Chempendium, HSDB and RTECs).
- 4. Material Safety Data Sheets from manufacturer.
- 5. OECD - The Global Portal to Information on Chemical Substances - eChemPortal, 2015.

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Other special considerations for handling

: Provide adequate information, instruction and training for operators.

<p>Prepared for: STRIDER-RESOURCE A Division of the O'Rourke Marketing Corporation Ltd. 5667 King Road Nobleton, ON, Canada, L0G 1N0 Telephone: (905) 859-3901 Direct all enquiries to: STRIDER-RESOURCE</p>	 <p>STRIDER RESOURCE Lifting & Rigging Products for the 21st Century™ www.strider-resource.com</p>
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