



**Div: EVANinc** 

RED ROCKET PM4 Safety Data Sheet

Date of Issue: 24/07/2017

Version: 1.0

SECTION 1: identification of the product and of the company

1.1. Product identifier

Product name : RED ROCKET PM4

Synonyms: N/A

Product code : 52162 / 52262 / 800 / 805 / 4250

1.2. Relevant identified uses of the product and uses advised against

Use of the product: Rocket parachute red flare. Visual signal for ships, lifeboats and

liferafts.

Use advised against: n/a

1.3. Details of the supplier/importer of the product

Supplier: Orion Safety Products Importer / Assembler CIL/Explosives

28320 St. Michaels Rd 533 Argenteuil Easton, MD Lachute, QC

21601 J8H 3Y2

Tel: 800-637-7807 Tel: 450-566-0655 Fax: 410-822-7759 Fax: 450-566-0677

email:customerservice@orionsignals.com email:reception@cilexplosives.com

www.orionsignals.com www.cilexplosives.com

1.4. Emergency telephone number

Emergency number: Canutec: 1-613-996-6666

SECTION 2: Hazards identification

2.1. Classification of the product

Explosives Category 1.4 H203



Hazard pictograms:

Signal word : Danger

Hazard statements: H203 Explosive: fire, blast or projection hazard

Precautionary statements: P210 Keep away from heat/sparks/open flames/hot

P250 Do not subject to grinding/shock/friction

P280 Wear protective gloves/protective clothing/eye

protection/face protection

P370&P380 In case of fire: Evacuate area P372 Explosion risk is case of fire

P373 DO NOT fight fire when fire reaches explosives

P401 Store in a dry place and not over 65 degrees

Celsius

P501 Dispose of contents/container as hazardous

waste

### 2.3. Other hazards

Other hazards not contributing to

the classification :

Burn hazard if not used conforming to the product instruction

Do not use damaged products Keep out the reach of children

Do not point (and fire) product at people or properties Do not ignite in confined spaces. Product is designed for

outdoor use only.

## SECTION 3 : Composition/information on ingredients

Chemical Characteristics: Oxidizer and fuel mixture

Description: Pressed pyrotechnical powder

Active mass: 135 gr Product total weight: 370 gr

Component	CAS#	EINCS #	%AGE		
Lighter Composition					
Strontium nitrate	10042-76-9	233-131-9	10%		
Magnesium	7439-95-4	231-104-6	8%		
PVC - Solvin	9002-86-2	236-948-9	2.5%		
Potassium Perchlorate	7778-74-7	231-912-9	2.5%		
Linseed oil	8001-26-1	232-278-6	0.2%		

Component	CAS#	EINCS #	%AGE	
Motor Composition				
Potassium Perchlorate	7778-74-7	231-612-9	7%	
Phenol formaldehyde	9003-35-4	500-005-2	4%	
resin				
Phenol	108-95-2	203-632-7	residuals	

Note: Due to Confidential Business Information i.e "Trade Secrets", the exact percentage of each ingredient has not been disclosed. CBI information will be shared with appropriate authorities if circumstances warrant.

### **SECTION 4: First aid measures**

## 4.1. Description of first aid measures

It regards the substances inside the product only. In case of:

First-aid measures after inhalation: If the injured inhales combustion gases, bring him to open air

and eventually a physician

First-aid measures after skin contact: Flush with water

First-aid measures after eye contact: Wash immediately with abundant water and consult a physician First-aid measures after ingestion: Cause vomiting with warm salt water. If the injured is seriously

harmed seek medical help.

## 4.2. Most important symptoms and effects, both acute and delayed

Symptons and effect: See section 2 labeling and section 11

## 4.3. Indication of any immediate medical attention and special treatment needed

## Not defined

## **SECTION 5: Firefighting measures**

## 5.1. Extinguishing media

Suitable extinguishing media: DO NOT TRY TO EXTINGUISH THE FIRE AND STAY AT SAFE

DISTANCE. For secondary fires use chemical extinguisher or

sand.

Unsuitable extinguishing media : Do not use water.

### 5.2. Special hazards arising from the chemical

Fire hazard: Do not keep the product at temperature over 65 degrees

Celsius. Bring product out of flames.

Explosion hazard: High emission of fumes and light. Protect respiratory organs. if

fire burns many products, protect eyes from ultraviolet

emissions.

Reactivity: N/A

5.3. Advice for firefighters

Firefighting instructions: DO NOT TRY TO EXTINGUISH THE FIRE AND STAY SAFETY

DISTANCE.

Protection during firefighting: High emission of fumes and light. Protect respiratory organs.

If the fire burns many products, protect the eyes from

ultraviolet emissions.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Protective equipment : N/A Emergency procedures : N/A

6.2. Environmental precautions

N/A

6.3. Methods and material for containment and cleaning up

For containment : N/A

Methods for cleaning up:

In case of breaking of the packaging and discharge of mixture,

broom, pick it by dustpan (if possible plastic) and put the material in a plastic container. Keep out of flames & sparks. Call immediately police or firemen in case of large spillage.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling: Operating instructions are printed on the tube (product)

Protect from exposure to impacts, friction, heat, fire, spark,

electrostatic charges and other ignition sources.

Do not use damage products

Do not use in close places, outdoor use only.

Do not point (and fire) the product at people or properties.

Hygiene measures: Wash thoroughly after handling

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a dry and airy place at temperature between

- 30 degrees Celsius and 65 degrees Celsius.

Incompatible products : Store with goods of the same danger class.

Incompatible materials : Store only with non-dangerous materials

Storage temperature: Between - 30 degrees Celsius and 65 degrees Celsius

Heat and ignition sources: Keep away from ignition and heat sources.

Prohibitions on mixed storage : N/A

Storage area: Store in a dry and airy place at temperature between

- 30 degrees Celsius and 65 degrees Celsius.

Store according to the local regulations regarding the storage of

explosive materials.

Special rules on packaging: Keep the package off the ground to avoid moisture absorption.

Packaging materials: Cardboard box

SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

None set

### 8.2. Exposure controls

If substances come out from a damage or defective product use the precautions reported below.

Appropriate engineering controls: No heat sources or ignition

Hand Protection: Handle the material accidentally leaked wearing rubber or

PVC gloves.

Eye protection : Use protective glasses

Skin and body protection: Avoid contact with skin and garments

Respiratory protection: Do not inhale fumes or vapors sent forth in working. Use a

mask with acid filters.

Other information: Always check applicability with you supplier of protective

equipment.

## SECTION 9: Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

Physical state: N/A

Appearance: External: yellow plastic tube with superior cap (yellow)

and inferior screw cap (red).

Internal: motor activated by a firing pin, illuminating flare (gray pyrotechnical composition pressed in a cardboard tube)

bound to a nylon parachute.

Molecular mass : Not applicable Colour : Not applicable

Odour : None Odour threshold : None

PH: Not applicable
Relative evaporation rate: Not applicable
Melting point: Not applicable
Freezing point: Not applicable
Boiling point: Not applicable

Flash point : Not applicable

Critical temperature : \*\*\*ENTER TEMPERATURE HERE\*\*\*

Self ignition temperature:

Decomposition temperature:

Flammability:

Vapour pressure:

Critical pressure:

Relative density:

No data available

Not applicable

Not applicable

Not applicable

Not applicable

Not applicable

Not applicable

Solubility: Composition partially soluble (20 degrees Celsius in g/l)

Log Pow:

Not applicable

Viscosity:

Not applicable

Viscosity:

Not applicable

Explosive properties:

Not applicable

Oxidizing properties:

Not applicable

Explosive limits:

No data available

Auto ignition temperature:

Not applicable

SECTION 10: Stability and reactivity

10.1 Reactivity

When the product is used in the appropriate manner no danger exists and it is not necessary to take precautions.

### 10.2. Chemical stability

When the product is used in the appropriate manner no danger exists and it is not necessary to take precautions.

### 10.3. Possibility of hazardous reactions

When the product is used in the appropriate manner no danger exists and it is not necessary to take precautions.

### 10.4. Conditions to avoid

Temperature < - 30 degrees Celsius Temperature > 65 degrees Celsius

Strong mechanical impacts and frictions

Near potential sparks sources.

## 10.5. Incompatible materials

Avoid contact of the composition with organic materials and other fuels.

### 10.6. Hazardous decomposition products

During the reaction of the pyrotechnical components dangerous gases and particles are produced: NOX, CO, CO2, metal oxides and acid vapors.

## SECTION 11: Toxicological information

## 11.1. Information on toxicological effects

Ingredient	Oral LD50	Skin LD50	LC50
No Ingredient	N/A	N/A	N/A
mentioned			

Acute toxicity: Breathing in the combustion gases (air limit 6 mg/m3)

Skin corrosion/irritation : After long exposure it may cause skin irritation

Serious eye damage/irritation: No deleterious effects known

Respiratory or skin sensitisation: After long exposure it may cause mucosa irritation

Germ cell mutagenicity:

Carcinogenicity:

No deleterious effects known

Potential adverse human health effect

and symptoms:

Symptoms/injuries after inhalation:

No deleterious effects known

Symptoms/injuries after intravenous

administration : No deleterious effects known Chronic symptoms : No deleterious effects known

## **SECTION 12: Ecological information**

### 12.1. Toxicity

Aquatic Toxicity: Not defined

### 12.2. Persistence and degradability

The torch itself, without its package, may slowly decompose under the effect of atmospheric agents and release oxides and nitrates. The composition inside the product is partially water soluble.

## 12.3. Bioaccumulative potential

## Not defined

# 12.4. Mobility in environmental media

Avoid the product release in water (rivers, lakes, sea). It may slowly decompose and release metal oxides, nitrates and chlorine compounds easily absorbed by water and soil.

### 12.5. Other adverse effects

The combustion gases may contribute to the greenhouse effect if release in very high quantities.

## **SECTION 13: Disposal considerations**

### 13.1.. Disposal methods

Disposal should be carried out in accordance with health, safety, waste, environmental, storage/manufacture of explosives regulations.

Recyclability: Non-contaminated packages may be recycled

Expired products: Depending on local regulations, not conforming, damaged or expired products

could be destroyed by combustion by specialized authorities with appropriate

appropriate tools in an appropriate area.

## **SECTION 14: Transport information**

### 14.1.. UN number

UN number: 0403

## 14.2.. UN proper shipping name

UN proper shipping name : Flares, aerial

UN hazard class: 1.4G



UN DG Placard:

Packing group : II - Medium Danger

## **SECTION 15: Regulatory information**

Safety, health and environmental regulations /

Legislation specific for the substance or mixture: None specified

Chemical safety assessment: A chemical safety assessment has not been carried out on this mixture.

Other regulations: For handling, use, storage, transportation and disposal of this product follow

the local, national and international rules and the regulations in forces.

### **SECTION 16: Other information**

Revision information: 24/07/2017

Referring to Section 3 of this Safety Data Sheet, R-phrases and H-statements for the inner composition components are clarified below:

#### **R-Phrases**

R8	Contact with combustible material may cause fire
R9	Explosive when mixed with combustible material

R11 Highly flammable

R15 Contact with water liberates extremely flammable gases

R22 Harmful if swallowed R34 Causes severe burns

R43 May cause sensitisation by skin contact
R68 Possible risk of irreversible effects
R20/22 Harmful by inhalation and if swallowed

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed R23/24/25 Toxic by inhalation, in contact with skin and if swallowed

R36/37/38 Irritating to eyes, respiratory system and skin

R48/20/21/22 Harmful: danger of serious damage to health by prolonged exposure through

inhalation, in contact with skin and if swallowed.

### **H-Statements**

H201 Explosive; mas	explosion hazard
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H228 Flammable solid

H251 Self-heating: match catch fire

H261 In contact with water releases flammable gas
H271 May cause fire or explosion: strong oxidizer

H272 May intensify fire; oxidizer

H302/H312/H332 May be harmful if swallowed, in contact with skin and if inhaled

H301 Toxic if swallowed

H302 May be harmful if swallowed H311 Toxic in contact with skin

H314 Causes severe skin burns and eye damage

H315 Causes skin irritation

H317 May Cause an allergic skin reaction
H319 Causes serious eye irritation

H331 Toxic if inhaled

H335 May cause respiratory irritation
H341 Suspected of causing genetic defects

H373 May cause damage to organs through prolonged or repeated exposure

# SECTION 16: Other information (Continued)

The information reported in this Safety Data Sheet describes safety requirements that may not be valid if the product is used in combination with other products. The information is based on today knowledge of the product and its components. The company is not responsible for improper or incorrect use, different from what indicated on instruction.