



## SAFETY DATA SHEET

(REACH regulation (EC) n° 1907/2006 - n° 453/2010)

### SECTION 1 : IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1. Product identifier

Product name : CHARGE DE SCELLEMENT  
Product code : SPIT - 6,3/10.

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Cartridge.

#### 1.3. Details of the supplier of the safety data sheet

Registered company name : SPIT.  
Address : 150, route de Lyon.26500.BOURG LES VALENCE.France.  
Telephone : 0 810 102 102. Fax : 0 810 432 432.  
Email : msds-reach@spit.com  
<http://www.spit.fr>

#### 1.4. Emergency telephone number : 112.

Association/Organisation : European emergency number.

#### Other emergency numbers

[http://echa.europa.eu/help/nationalhelp\\_contact\\_en.asp](http://echa.europa.eu/help/nationalhelp_contact_en.asp)

### SECTION 2 : HAZARDS IDENTIFICATION

#### 2.1. Classification of the substance or mixture

##### In compliance with EC regulation No. 1272/2008 and its amendments.

Explosive, Division 1.4 (Expl. 1,4, H204).

This mixture does not present a health hazard with the exception of possible occupational exposure thresholds (see paragraphs 3 and 8).

This mixture does not present an environmental hazard. No known or foreseeable environmental damage under standard conditions of use.

#### 2.2. Label elements

##### In compliance with EC regulation No. 1272/2008 and its amendments.

Hazard pictograms :



GHS01

Signal Word :

WARNING

Additional labeling :

Hazard statements :

H204 Fire or projection hazard.

Precautionary statements - Prevention :

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P240 Ground/bond container and receiving equipment.

P250 Do not subject to grinding/shock/.../friction.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statements - Response :

P370 + P380 In case of fire: Evacuate area.

Precautionary statements - Storage :

P401 Store ...  
 Precautionary statements - Disposal :  
 P501 Dispose of contents/container at a disposal facility in accordance with local regulations.

### 2.3. Other hazards

The mixture contains substances classified as 'Substances of Very High Concern' (SVHC)  $\geq 0.1\%$  published by the European Chemicals Agency (ECHA) under article 57 of REACH: <http://echa.europa.eu/fr/candidate-list-table>  
 The mixture fulfils neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.  
 Risk of uncontrolled under fire operation, exposure to heat, electrostatic discharge, shock.  
 Risk of dangerous projectiles, and emission of high-speed gases released during operation.  
 Risk of burns in case of direct contact with heated elements by the operation or the reaction products (particles and gases) of the article.  
 Fire spread risk if heated elements by the operation or of Article reaction products come into contact with flammable materials.  
 Risk of injuries to high-volume sound pulses during operation.

## SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2. Mixtures

Sealing expenses for the sealing tools include pyrotechnic components are hermetically sealed. Under normal or reasonably foreseeable conditions of use, the components will not be released, including when disposing of the article. They must not be opened.

- Primer composition: 20 to 30mg by sealing load.
- Propellant composition: 100 to 400mg sealing load.

In case of damaged sealing loads (open, crushed ...) and Accidental release pyrotechnic substances and mixtures, see paragraph 6.3.

#### Composition :

Identification	(EC) 1272/2008	Note	%
CAS: 55-63-0 EC: 200-240-8  GLYCEROL TRINITRATE	GHS06, GHS09, GHS08 Dgr Acute Tox. 2, H300 Acute Tox. 1, H310 Acute Tox. 2, H330 STOT RE 2, H373 Aquatic Chronic 2, H411	[1]	2.5 $\leq$ x % < 10
CAS: 15245-44-0 EC: 239-290-0 REACH: 01-2119543737-30-0005  LEAD STYPHNATE	GHS08, GHS07, GHS09 Dgr Acute Tox. 4, H302 Acute Tox. 4, H332 Repr. 1A, H360Df STOT RE 2, H373 Aquatic Acute 1, H400 M Acute = 1 Aquatic Chronic 1, H410 M Chronic = 1	E [2] [6]	1 $\leq$ x % < 2.5
INDEX: 612-026-00-5 CAS: 122-39-4 EC: 204-539-4  DIPHENYLAMINE	GHS06, GHS08, GHS09 Dgr Acute Tox. 3, H331 Acute Tox. 3, H311 Acute Tox. 3, H301 STOT RE 2, H373 Aquatic Acute 1, H400 M Acute = 1 Aquatic Chronic 1, H410 M Chronic = 1	[1]	0 $\leq$ x % < 1

(Full text of H-phrases: see section 16)

#### Information on ingredients :

- [1] Substance for which maximum workplace exposure limits are available.  
 [2] Carcinogenic, mutagenic or reprotoxic (CMR) substance.  
 [6] Substances of very high concern (SVHC).

## SECTION 4 : FIRST AID MEASURES

As a general rule, in case of doubt or if symptoms persist, always call a doctor.  
 NEVER induce swallowing by an unconscious person.

#### 4.1. Description of first aid measures

##### In the event of exposure by inhalation :

- If inhaled, move the patient into the fresh air and keep warm and at rest.
- If breathing is irregular or has stopped, proceed with artificial respiration and seek medical attention.

##### In the event of splashes or contact with eyes :

- Wash thoroughly with fresh, clean water for 15 minutes holding the eyelids open.
- If there is any redness, pain or visual impairment, consult an ophthalmologist.

##### In the event of splashes or contact with skin :

- Watch out for any remaining product between skin and clothing, watches, shoes, etc.
- Wash the skin thoroughly with soap and water or a recognised cleaner.

##### In the event of swallowing :

- Seek medical attention, showing the label.

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

No data available.

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

No data available.

## SECTION 5 : FIREFIGHTING MEASURES

If a fire reaches the cargo, not to fight. Evacuate everyone in the area, including emergency response personnel within a radius of 25 m.

#### 5.1. Extinguishing media

##### Suitable methods of extinction

In the event of a fire, use :

- water
- carbon dioxide (CO<sub>2</sub>)
- foam
- powder

Prevent the effluent of fire-fighting measures from entering drains or waterways.

#### 5.2. Special hazards arising from the substance or mixture

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.

Do not breathe in smoke.

In the event of a fire, the following may be formed :

- carbon monoxide (CO)
- carbon dioxide (CO<sub>2</sub>)
- nitrogen oxide (NO)
- nitrogen dioxide (NO<sub>2</sub>)
- lead oxides

#### 5.3. Advice for firefighters

Due to the toxicity of the gas emitted on thermal decomposition of the products, fire-fighting personnel are to be equipped with autonomous insulating breathing apparatus.

## SECTION 6 : ACCIDENTAL RELEASE MEASURES

#### 6.1. Personal precautions, protective equipment and emergency procedures

Consult the safety measures listed under headings 7 and 8.

##### For first aid worker

First aid workers will be equipped with suitable personal protective equipment (See section 8).

#### 6.2. Environmental precautions

Prevent any material from entering drains or waterways.

#### 6.3. Methods and material for containment and cleaning up

Unused loads must be collected to be evacuated and destroyed by a certified specialist.

The charges used to be collected in order to be evacuated and destroyed by a certified specialist.

If damaged loads (open, crushed ...) and / or release of pyrotechnic substances or mixtures, moisten to reduce the reactivity of the products.

Collect in a plastic container (in this case, cover with water) of wood or cardboard.

#### 6.4. Reference to other sections

No data available.

## SECTION 7 : HANDLING AND STORAGE

Requirements relating to storage premises apply to all facilities where the mixture is handled.

**7.1. Precautions for safe handling**

Always wash hands after handling.

**Fire prevention :**

Prevent access by unauthorised personnel.

**Recommended equipment and procedures :**

For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulations.

Use only devices for this purpose (eg sealing tool or test device).

**Prohibited equipment and procedures :**

No smoking, eating or drinking in areas where the mixture is used.

Prohibit loading rain and limit the flow speed of the product, especially at the beginning of loading.

Do not use fillers having suffered falls or other mechanical load.

Do not attempt to open.

Do not drill, weld, solder.

Can become a dangerous projectile when it is initiated outside its intended application.

**7.2. Conditions for safe storage, including any incompatibilities**

No data available.

**Packaging**

Always keep in packaging made of an identical material to the original.

**7.3. Specific end use(s)**

No data available.

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

Wearing a helmet hearing protection is strongly recommended during the operation.

**8.1. Control parameters****Occupational exposure limits :**

- ACGIH TLV (American Conference of Governmental Industrial Hygienists, Threshold Limit Values, 2010) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
55-63-0	0,05 ppm			Skin	
122-39-4	10 mg/m <sup>3</sup>			A4	

- Belgium (Arrêté du 09/03/2014, 2014) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
55-63-0	0,05 ppm 0,47 mg/m <sup>3</sup>			D	
122-39-4	10 mg/m <sup>3</sup>				

- France (INRS - ED984 :2016) :

CAS	VME-ppm :	VME-mg/m <sup>3</sup> :	VLE-ppm :	VLE-mg/m <sup>3</sup> :	Notes :	TMP No :
55-63-0	0.1	1	-	-	*	72
122-39-4	-	10	-	-	-	15.15 Bis

- Switzerland (SUVAPRO 2017) :

CAS	VME	VLE	Valeur plafond	Notations
55-63-0	0,01 ppm 0,094 mg/m <sup>3</sup>	0,01 ppm 0,094 mg/m <sup>3</sup>		R B SSC
122-39-4	10 i mg/m <sup>3</sup>			R SSC

- UK / WEL (Workplace exposure limits, EH40/2005, 2011) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
122-39-4	- ppm 10 mg/m <sup>3</sup>	- ppm 20 mg/m <sup>3</sup>			

- European Union (2017/2398, 2017/164, 2009/161, 2006/15/CE, 2000/39/CE, 98/24/CE) :

CAS	VME-mg/m <sup>3</sup> :	VME-ppm :	VLE-mg/m <sup>3</sup> :	VLE-ppm :	Notes :
55-63-0	0.095	0.01	0.19	0.02	Skin

- Germany - AGW (BAuA - TRGS 900, 29/01/2018) :

CAS	VME :	VME :	Excess	Notes
55-63-0		0,01 ppm 0,094 mg/m <sup>3</sup>		1(II)
122-39-4		5 E mg/m <sup>3</sup>		2(II)

**8.2. Exposure controls****Personal protection measures, such as personal protective equipment**

Pictogram(s) indicating the obligation of wearing personal protective equipment (PPE) :



Use personal protective equipment that is clean and has been properly maintained.

Store personal protective equipment in a clean place, away from the work area.

Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

#### - Eye / face protection

Avoid contact with eyes.

Before handling powders or dust emission, wear mask goggles in accordance with standard EN166.

#### - Hand protection

Wear suitable protective gloves in the event of prolonged or repeated skin contact.

Type of gloves recommended :

- Cotton

- Leather

Recommended properties :

- Impervious gloves in accordance with standard EN374

#### - Body protection

Work clothing worn by personnel shall be laundered regularly.

After contact with the product, all parts of the body that have been soiled must be washed.

#### - Respiratory protection

Avoid breathing dust.

Type of FFP mask :

Wear a disposable half-mask dust filter in accordance with standard EN149.

## SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

#### General information :

Physical state :	Solid.
-	Metal casing.

#### Important health, safety and environmental information

pH :	Not relevant.
Vapour pressure (50°C) :	Not relevant.
Density :	> 1
Water solubility :	Insoluble.
Self-ignition temperature :	170 °C.

### 9.2. Other information

Minimum ignition energy:	0.25 J.
Sensitivity to impact:	Ball 112 g to 220 mm in height.

## SECTION 10 : STABILITY AND REACTIVITY

### 10.1. Reactivity

When the sealing load is handled and stored properly (see section 7), no hazardous reactions to be expected. Pyrotechnic products are stable under conditions of intended use for handling and storage.

### 10.2. Chemical stability

This mixture is stable under the recommended handling and storage conditions in section 7.

### 10.3. Possibility of hazardous reactions

No data available.

### 10.4. Conditions to avoid

Avoid :

- shock and friction

- heating

- heat

### 10.5. Incompatible materials

Keep away from :

- acids

- bases

- strong oxidising agents

#### 10.6. Hazardous decomposition products

The thermal decomposition may release/form :

- carbon monoxide (CO)
- carbon dioxide (CO<sub>2</sub>)
- nitrogen oxide (NO)
- nitrogen dioxide (NO<sub>2</sub>)
- lead oxides

## SECTION 11 : TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

A small amount of inhalable particles can be released when firing.

#### 11.1.1. Substances

No toxicological data available for the substances.

#### 11.1.2. Mixture

##### Acute toxicity :

Oral route :	No observed effect. LD50 > 5000 mg/kg
Dermal route :	No observed effect. LD50 > 5000 mg/kg
Inhalation route (Dusts/mist) :	No effect. Duration of exposure : 4 h LC50 >= 5 mg/l

## SECTION 12 : ECOLOGICAL INFORMATION

### 12.1. Toxicity

#### 12.1.2. Mixtures

Fish toxicity :	No observed effect. LC50 > 100 mg/l
Crustacean toxicity :	No observed effect. EC50 > 100 mg/l
Algae toxicity :	No observed effect. ECr50 > 100 mg/l

### 12.2. Persistence and degradability

#### 12.2.2. Mixtures

Biodegradability :	no degradability data is available, the substance is considered as not degrading quickly. The fillers may fragment and decompose in the soil, giving rise to accumulation of lead.
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### 12.3. Bioaccumulative potential

No data available.

### 12.4. Mobility in soil

Dissolved lead from waste loads can migrate into the soil.

### 12.5. Results of PBT and vPvB assessment

No data available.

### 12.6. Other adverse effects

No data available.

#### German regulations concerning the classification of hazards for water (WGK) :

WGK 3 (VwVwS vom 27/07/2005, KBws) : Extremely hazardous for water.

## SECTION 13 : DISPOSAL CONSIDERATIONS

Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

### 13.1. Waste treatment methods

Do not pour into drains or waterways.

Items that have not been initiated or have partially It Works may only be disposed of by specialist companies approved and in accordance with rules and regulations.

**Waste :**

To be translated (XML)

To be translated (XML)

To be translated (XML)

**Codes of wastes (Decision 2001/573/EC, Directive 2006/12/EEC, Directive 94/31/EEC on hazardous waste) :**

16 04 03 \* other waste explosives

## SECTION 14 : TRANSPORT INFORMATION

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2017 - IMDG 2016 - ICAO/IATA 2017).

**14.1. UN number**

0014

**14.2. UN proper shipping name**

UN0014=CARTRIDGES FOR WEAPONS, BLANK or CARTRIDGES, SMALL ARMS, BLANK or CARTRIDGE FOR TOOLS, BLANK

**14.3. Transport hazard class(es)**

- Classification :



1.4

**14.4. Packing group**

-

**14.5. Environmental hazards**

-

**14.6. Special precautions for user**

ADR/RID	Class	Code	Pack gr.	Label	Ident.	LQ	Provis.	EQ	Cat.	Tunnel
	1	1.4S	-	1.4	-	5 kg	364	E0	4	E
IMDG	Class	2°Label	Pack gr.	LQ	EMS	Provis.	EQ			
	1.4S	-	-	5 kg	F-B,S-X	364	E0			
IATA	Class	2°Label	Pack gr.	Passager	Passager	Cargo	Cargo	note	EQ	
	1.4S	-	-	130	25 kg	130	100 kg	-	E0	
	1.4S	-	-	Forbidden	Forbidden	-	-	-	E0	

For limited quantities, see part 2.7 of the OACI/IATA and chapter 3.4 of the ADR and IMDG.

For excepted quantities, see part 2.6 of the OACI/IATA and chapter 3.5 of the ADR and IMDG.

**14.7. Transport in bulk according to Annex II of Marpol and the IBC Code**

No data available.

## SECTION 15 : REGULATORY INFORMATION

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

**- Classification and labelling information included in section 2:**

The following regulations have been used:

- EU Regulation No. 1272/2008 amended by EU Regulation No. 487/2013.

- EU Regulation No. 1272/2008 amended by EU Regulation No. 758/2013.

- EU Regulation No. 1272/2008 amended by EU Regulation No. 944/2013.

- EU Regulation No. 1272/2008 amended by EU Regulation No. 605/2014.

**- Container information:**

No data available.

**Usage restrictions apply to the product : See annex XVII of EC regulation No. 1907/2006.**

For professional users only.

**- Particular provisions :**

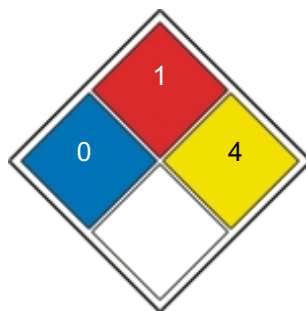
No data available.

**- German regulations concerning the classification of hazards for water (WGK) :**

WGK 3 (VwVwS vom 27/07/2005, KBws) : Extremely hazardous for water.

- **Standardised American system for the identification of hazards presented by the product in view of emergency procedures (NFPA 704) :**

NFPA 704, Labelling: Health=0 Inflammability=1 Instability/Reactivity=4 Specific Risk=none



## 15.2. Chemical safety assessment

No data available.

## SECTION 16 : OTHER INFORMATION

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.

### Wording of the phrases mentioned in section 3 :

H300	Fatal if swallowed.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H310	Fatal in contact with skin.
H311	Toxic in contact with skin.
H330	Fatal if inhaled.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H360Df	May damage the unborn child. Suspected of damaging fertility.
H373	May cause damage to organs through prolonged or repeated exposure .
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

### Abbreviations :

CMR: Carcinogenic, mutagenic or reprotoxic.

ADR : European agreement concerning the international carriage of dangerous goods by Road.

IMDG : International Maritime Dangerous Goods.

IATA : International Air Transport Association.

ICAO : International Civil Aviation Organisation

RID : Regulations concerning the International carriage of Dangerous goods by rail.

WGK : Wassergefährdungsklasse (Water Hazard Class).

GHS01 : Exploding bomb

SVHC : Substances of very high concern.