

Product **FLUXO R180 AERO**

Revision 1

Date **01/01/2015**Page **1/6****SECTION 1 - IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY****1.1 Product Identifier**

Name of the product : FLUXO R180 Aerosol

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

Use : Developer for Penetrant Testing

**1.3 Details of the Supplier of the Safety Data Sheet***Manufacturer and Supplier:*

SREM TECHNOLOGIES

14, rue des frères Chappe

Tél : +33 (0)2.43.48.15.10

ZI Ouest

Fax : +33 (0)2.43.45.25.26

72200 La FLECHE - FRANCE

e-mail : [info@srem.fr](mailto:info@srem.fr)[www.srem.fr](http://www.srem.fr)**1.4 Emergency Telephone Number**

Emergency Telephone Number : INRS +33.(0)1.45.42.59.59

**SECTION 2 – HAZARDS IDENTIFICATION****2.1 Classification of the substance or Mixture**

Flammable Aerosol, Cat 1

H222: Extremely Flammable Aerosol

Skin Sens, Cat 2

H229 : Pressurised container : May burst if heated

STOT SE, Cat 3

H319 : Causes serious eye irritation

H336 : May cause drowsiness or dizziness

**2.2 Labels Elements****Hazards Pictograms****Hazard Statement**

H222 : Extremely Flammable Aerosol

H229 : Pressurised container : May burst if heated

H319 : Causes serious eye irritation

H336 : May cause drowsiness or dizziness

**Precautionary Statement**

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

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P262 Do not get in eyes, on skin, or on clothing.

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

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308 + P313 IF exposed or concerned: Get medical advice/ attention.

P501 Dispose of contents/container to an approval waste disposal plant.

**Special labelling for aerosol cans:***Pressurized container: Do not pierce or burn, even after use - Protect from sunlight - Do not expose to temperatures exceeding 50°C - Do not spray on an open flame or other ignition source - Keep away from heat/sparks/open flames/hot surfaces - No smoking.***2.3 Other Hazards**

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### SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

#### 3.1 Mixtures

Substance Name	N° CAS N° CE	Classification (1272/2008)	Concentration (%)
Propellant :	75-28-5 - 200-857-2 01-2119485395-27		
Isobutane	74-98-6 - 200-827-9	Flam. Gas 1 H220 Press. Gas	> 30
Propane	01-2119486944-21		
Butane	106-97-8 - 203-448-7 01-2119474691-32		
Propan-2-ol	67-63-0 200-661-7 01-2119457558-25-	Flam. Liq. 2 H225 Eye Irrit. 2 H319 STOT SE 3 H336	10-20
Acetone	67-64-1 200-662-2 01-2119471330-49-xxxx	Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 STOT SE 3 - H336	> 30

Full Test of H phrases: see section 16.

### SECTION 4 – FIRST AID MEASURES

#### 4.1 Description of first aid measures

<b>General information</b>	Take off immediately all contaminated clothing and wash it before reuse. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). If unconscious place in recovery position and seek medical advice.
<b>After ingestion</b>	Rinse mouth thoroughly with water. Get medical advice/attention if you feel unwell.
<b>After eye contact</b>	In case of eye irritation consult an ophthalmologist. Rinse immediately carefully and thoroughly with eye-bath or water.
<b>After skin contact</b>	After contact with skin, wash immediately with plenty of water and soap. In case of skin irritation. Consult a physician. Take off immediately all contaminated clothing.
<b>Following inhalation</b>	In case of inhaling spray mist, consult a doctor immediately and show him packing or label. If breathing is irregular or stopped, administer artificial respiration.

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

Respiratory complaints Drowsiness

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

No data available

### SECTION 5 – FIREFIGHTING MEASURES

#### 5.1 Extinguishing media

Suitable extinguishing media: Water spray Water mist Foam Extinguishing powder

Unsuitable extinguishing media: Full Water Jet

#### 5.2 Special Hazards arising from the substance or mixtures

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: In case of fire may be liberated: Nitrogen oxides (NOx) Carbon monoxide.

**5.3 Advice for Firefighters**

: In case of fire: Wear self-contained breathing apparatus.

**SECTION 6 - ACCIDENTAL RELEASE MEASURES**

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

: Use personal protection equipment – Provide adequate ventilation

**6.2 Environmental Precautions**

: Do not allow to enter into surface water or drains

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

: Absorb with liquid-binding material

**6.4 Reference to others sections**

: See section 8 & 13

**SECTION 7 – HANDLING AND STORAGE**

**7.1 Precautions for safe handling**

All work processes must always be designed so that the following is excluded: Inhalation Skin contact Eye contact  
Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.

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

Ensure adequate ventilation of the storage area.

Hints on storage assembly: Materials to avoid oxidizing agent

Further information on storage conditions: Keep only in the original container in a cool, well-ventilated place.

**7.3 Specific End Uses**

: Developer for Penetrant Testing

**SECTION 8 – EXPOSURE CONTROLES AND PERSONAL PROTECTION**

**8.1 Control Parameters**

Component	CAS	
Propan-2-ol	67-63-0	Short Term Value = 400 ppm
Butane	106-97-8	Long Term Value = 800 ppm = 1900 mg/m <sup>3</sup>
Acétone	67-64-1	Long Term Value = = 500 ppm

**8.2 Exposure Controls**

Eye/face protection

: Suitable eye protection: Eye glasses

Skin protection

: Use protective skin cream before handling the product. Hand protection

Suitable gloves type: NBR (Nitrile rubber)

Respiratory protection

: Filter type: AX

Protective clothing

: Body protection: not required.

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General health and safety measures: When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work. After cleaning apply high-fat content skin care cream.

## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemicals properties:

Physical State	: Aerosol
Aspect	: White liquid
Odor	: characteristic
Density (active component)	: 890 kg/m <sup>3</sup>
Flash Point (active component)	: < 0°C
Ignition Temperature	: > 250°C (ASTM E659)
Explosive Limits	: lower : 2%                      upper : 12%
Solubility	: not soluble in water

### 9.2 Others information

## SECTION 10 – STABILITY AND REACTIVITY

### 10.1 Reactivity

: Reaction with oxidising agent

### 10.2 Chemical Stability

: Stable in normal condition of use

### 10.3 Possibility of Hazardous reactions

: No Data available

### 10.4 Conditions to avoid

: No Data available

### 10.5 Incompatible Materials

: No Data available

### 10.6 Hazardous decomposition products

: No Data available

## SECTION 11 – TOXICOLOGICAL INFORMATION

### 11.1 Information on Toxicological Information

Component	DL50 Oral	DL50 Dermal	CL50 Inhalation
Propan-2-ol	5 840 mg/kg (rat)	13 900 mg/kg (rabbit)	> 25000 mg/L (rat)
Acetone	> 5000 mg/kg (rat)	> 5000 mg/kg (rabbit)	76 mg/L (rat)

**Acute oral toxicity:** Data apply to the main component.

**Acute dermal toxicity:** Data apply to the main component.

**Acute inhalation toxicity:** Data apply to the main component.

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## SECTION 12 – ECOLOGICAL INFORMATION

### 12.1 Toxicity

Component	EL50 (24h) daphnie	LL50 (96h) poisson
Propan-2-ol	9740 mg/L	9 640 mg/L
Acetone	> 1000 mg/L	> 1000 mg/L

### 12.2 Persistence and degradability

: No Data available

### 12.3 Bio accumulative potential

: No Data available

### 12.4 Mobility in soil

: No Data available

### 12.5 Results of PBT and vPvB assessment

: no PBT and vPvB

### 12.6 Other adverse effects

## SECTION 13 – DISPOSAL CONSIDERATIONS

### 13.1 Waste Treatment methods

Do not reject the product

Ensure conformity to local disposal regulations.

Packing is not taken again, they must be eliminated (polyethylene cans)

## SECTION 14 – TRANSPORT INFORMATION

### 14.1 UN Number

1950

### 14.2 UN proper shipping name

AÉROSOLS, FLAMMABLE

### 14.3 Transport Hazard Class

ADR / RID : 2

IMDG : 2

IATA : 2.1

### 14.4 Packing Group

ADR / RID : No - Instruction LQ2 (LIMITED QUANTITY)

IMDG : No - Instruction LQ2 (LIMITED QUANTITY)

IATA :

### 14.5 Environmental hazards

No

### 14.6 Special precautions for users

### 14.7 Transport in bulk according to Annex II of Marpol 73/78 and the IBC Code

## SECTION 15 – REGULATORY INFORMATION

### 15.1 Safety, health and environmental regulations/legislation specific for the substance/mixture

### 15.2 Chemical Safety Assessment

: No data available

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## SECTION 16 – OTHER INFORMATION

*The European regulation imposes that all the H sentences (section 2) appear in this paragraph. According to their concentration in the final product, these sentences do not appear on the label. This is why sentences or initials appearing in this paragraph can not appear on the label.*

### H sentences (section 2 and 3)

- H220 : Extremely flammable Gas
- H222 : Extremely Flammable Aerosol
- H225 : Highly flammable liquid and vapour
- H229 : Pressurised container : May burst if heated
- H319 : Causes serious eye irritation
- H336 : May cause drowsiness or dizziness

Use : Please refer to Technical Data Sheet