

Material Safety Data Sheet (91/155/EEC)

Date: 01.08.2011
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Our ref: 0202.2.S/DR

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1. Product and company information

Commercial product name: **SX Activator**

Supplier: Siroflex Ltd, Dodworth Business Park, Dodworth Barnsley, South Yorkshire, S75 3SP

Telephone: 01226 771600, Facsimile: 01226 771601

E-Mail: info@siroflex.co.uk Web: www.siroflex.co.uk

2. Hazard identification

Extremely flammable. Irritating to skin. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Vapours may cause drowsiness and dizziness.

Classification: Xi;R38. F+;R12. N;R50/53. R67.

Environment

The product contains a substance that is very toxic to aquatic organisms which may cause long term effects in the aquatic environment.

Physical and Chemical Hazards

Pressurised container. Must not be exposed for temperatures above 50°C. The product is extremely flammable, and explosive vapour / air mixtures may be formed even at normal room temperatures.

Human Health

In high concentrations, vapours and spray mists are narcotic and may cause headache, fatigue, dizziness and nausea.

3. Composition/information on ingredients

Name	EC No.	CAS-No.	Content	Classification
BUTANE/ ISOBUTANE		106-97-8	10-30%	F+;R12
CYCLOPENTANE	206-016-6	287-92-3	1-5%	F;R11 R52/53
HEPTANE	205-563-8	142-82-5	30-60%	F;R11 Xn;R65 Xi;R38 R67 N;R50/53
HEXANE MIXTURE OF ISOMERS (MAX 5% n-HEXANE (203-777-6))			10-30%	F;R11 Xn;R65 Xi;R38 R67 N;R50/53
HEXANE-norm	203-777-6	110-54-3	1-5%	F;R11 Repr3;R62 Xn;R65,R48/20 Xi;R38 R67 N;R51/53
METHYLCYCLOHEXANE	203-624-3	108-87-2	1-5%	F;R11 Xn;R65 Xi;R38 R67 N;R51/53
PENTANE	203-692-4	109-66-0	1-5%	F+;R12 XN;R65 R66 R67 N;R51/53
PROPANE	200-827-9	74-98-6	10-30%	F+;R12

The full text for all R-Phrases are displayed in section 16.

4. First aid measures

General Information:

Inhalation:

Move the exposed person to fresh air at once.

Move the exposed person to fresh air at once. Perform artificial respiration if breathing has stopped. Keep the effected person warm and at rest. Get prompt medical attention.

Ingestion:

Immediately rinse out mouth and provide fresh air. Do not induce vomiting. Get medical attention if any discomfort continues.

Skin contact:

Wash skin with soap and water. Get medical attention if any discomfort continues.

Eye contact:

Immediately rinse with water. Continue to rinse for at least 15 minutes. Make sure to remove any contact lenses from the yes before rinsing. Get medical attention promptly if symptoms occur after washing.

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5. Fire fighting measures

<u>Extinguishing media:</u>	Water spray, foam, dry powder or carbon dioxide.
<u>Special Fire Fighting procedures:</u>	Use water spray to reduce vapours. Aerosol cans may explode in a fire. Cool aerosol containers exposed to heat with water spray and remove container, if no risk is involved.
<u>Unusual Fire & Explosion Hazards:</u>	Extremely flammable. Forms explosive mixtures with air. May explode in a fire. Vapours are heavier than air and may spread near ground to sources of ignition.
<u>Specific Hazards:</u>	Pressurised container: Must not be exposed for temperatures above 50°C.

6. Accidental release measures

<u>Personal precautions:</u>	Ensure suitable personal protection (Including respiratory protection) during removal of spillages in a confined area.
<u>Environmental precautions:</u>	Avoid discharge into drains.
<u>Spill Clean-up Methods:</u>	Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Absorb in vermiculite, dry sand or earth and place into containers. Provide ventilation and confine spill. Do not allow runoff into sewer.

7. Handling and storage

<u>Usage Precautions:</u>	Keep away from heat, sparks and open flame. Read and follow manufacturer's recommendations. Avoid inhalation of vapours and spray mists. Do not spray on a naked flame or any incandescent material. When sprayed on a naked flame or any other incandescent material the aerosol vapours can be ignited.
<u>Storage Precautions:</u>	Extremely flammable. Store at moderate temperatures in dry, well ventilated areas. Keep away from heat, sparks and open flame. Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.

8. Exposure controls and personal protection

Name	Std	LT – ppm	LT – mg/m ³	ST – ppm	ST – mg/m ³
BUTANE/ ISOBUTANE	WEL	600 ppm		750 ppm	
HEPTANE	WEL	500 ppm			
HEXANE – norm	WEL	20 ppm	72 mg/m ³		
PENTANE	WEL	600ppm	1800 mg/m ³		

<u>Respiratory Equipment</u>	No specific recommendation made, but respiratory protection must be used if the general level exceeds the Recommended Workplace Exposure Limit. In case of inadequate ventilation use suitable respirator.
<u>Hand protection:</u>	For prolonged or repeated skin contact use suitable protective gloves.
<u>Eye protection:</u>	Wear approved chemical safety goggles where eye exposure is reasonably probable.
<u>Hygiene Measures:</u>	When using do not eat, drink or smoke. Wash promptly if skin becomes wet or contaminated.

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9. Physical and chemical properties

<u>Appearance:</u>	Aerosol
<u>Colour:</u>	Varying
<u>Odour:</u>	of solvents
<u>Physical data comments:</u>	Information given concerns the major ingredient. 23 Flammable gas.
<u>Flash point (°C):</u>	<-40°C
<u>Flammability limit – lower(%):</u>	1.8%
<u>Flammability limit – Upper(%):</u>	9.5%
<u>Auto ignition</u>	410-580
<u>Temperature (°C):</u>	

10. Stability and reactivity

<u>Stability:</u>	Highly volatile
<u>Conditions to avoid:</u>	Avoid heat, flames and other sources of ignition. Avoid exposure to high temperatures or direct sunlight.

11. Toxicological information

<u>Skin contact:</u>	Irritating to skin. Prolonged and frequent contact may cause redness and irritation.
<u>Eye contact:</u>	Spray and vapour in the eyes may cause irritation and smarting.
<u>Health Warnings:</u>	In high concentrations, vapours are narcotic and may cause headache, fatigue, dizziness and nausea. Arrhythmia, (deviation from normal heart beat).
<u>Route of entry:</u>	Inhalation. Skin absorption.
<u>Target Organs:</u>	Central nervous systems.
<u>Medical Symptoms:</u>	Narcotic effect. Vapours may cause drowsiness and dizziness.

12. Ecological information

<u>Ecotoxicity:</u>	Dangerous for the environment: May cause long-term adverse effects in the aquatic environment. The product contains a substance which is very toxic to aquatic organisms and which may cause long term adverse effects in the aquatic environment. Dangerous for the environment if discharged into watercourses. Do not allow to enter drains, sewers or watercourses.
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13. Disposal considerations

<u>Disposal Methods:</u>	Make sure containers are empty before discarding (explosion risk). Do not puncture or incinerate even when empty. Dispose of waste and residues in accordance with local authority.
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14. Transport information

UK ROAD CLASS	2, 5F	UK ROAD PACK GR.	#
PROPER SHIPPING NAME	AEROSOLS	ADR CLASS	Class 2: Gases
UN NO. ROAD	1950	ADR LABEL NO.	2.1
ADR CLASS NO.	2, 5F	RID CLASS NO.	2, 5F
ADR PACK GROUP	#	UN NO. SEA	1950
CEFIC TEC(R) NO.	20G5F	IMDG PAGE NO.	2102
RIDPACK GROUP	#	EMS	F-D, S-U
IMDG CLASS	2	UN NO. AIR	1950
IMDG PACK GR.	#	AIR SUB CLASS	2.1
MARINE POLLUTANT	No.		
AIR CLASS	2		
AIR PACK GR.	#		

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15. Regulatory information

Hazard symbols: IRRITANT EXTREMELY FLAMMABLE DANGEROUS FOR THE ENVIRONMENT

Contains: HEPTANE
HEXANE MIXTURE OF ISOMERS (MAX 5% n-HEXANE (203-777-6))

R12: Extremely Flammable.
R38: Irritating to skin.
R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R67: Vapours may cause drowsiness and dizziness.
S9: Keep container in a well-ventilated place.
S16: Keep away from sources of ignition – No smoking.
S23: Do not breathe vapour/ spray.
S24: Avoid contact with skin.
S37: Wear suitable gloves.
S38: In case of insufficient ventilation, wear suitable respiratory equipment.
S57: Use appropriate containment to avoid environmental contamination.
S60: This material and its container must be disposed of as hazardous waste.
S61: Avoid release into the environment. Refer to special instructions/ safety data sheets.

16. Other information

R11: Highly Flammable.
R12: Extremely Flammable.
R38: Irritating to skin.
R48/20: Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R62: Possible risk of impaired fertility.
R65: Harmful: may cause lung damage if swallowed.
R66: Repeated exposure may cause skin dryness or cracking.
R67: Vapours may cause drowsiness and dizziness.

The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials in any other process.
