

MATERIAL SAFETY DATA SHEET OF SC 190

1. Identification of the Product and the Company:

Product Identifier : SC 190 Use of the product : Industrial Use

Manufacturer and Supplier : Arora Technologies (P) Limited

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2. Hazard Identification:

Physical hazards : Flammable aerosols Category 1 : Gases under pressure Compressed Gas

: Specific target organ toxicity (single exposure) Category 3 Narcotic effects Health hazards

> Aspiration hazard Category 1

Environmental Hazards : Hazardous due to aquatic enviroment, Category 2

acute hazard

: Not Classified OSHA defined hazards

Label elements

Signal word : Danger

Hazard statement : Extremely flammable aerosol. Contains gas under pressure. May explode if

heated. May be fatal if swallowed and enters airways.

Precautionary statement

Prevention : Keep away from heat/sparks/open flames/hot surfaces. No smoking. Do not

spray on an open Flame. Pressurized container: Do not pierce or burn, even

after use. Avoid breathing most or vapor.

Response : If swallowed: Immediately call a poison center/doctor. If inhaled: Remove

person to fresh air and keep comfortable for breathing. Do not induce vomit.

Storage : Store in well ventilated place. Keep container tightly closed. protect from sun. Disposal

: Dispose of contents/container in accordance with local/regional/national/

international regulations.

Hazard(s) not otherwise

classified (HNOC)

: Not classified.

3. Composition/information on ingredients

Chemical name	CAS number	%
Propane	74-98-6 - 200-827-9, 01-2119486944-21,	> 30%
Butane	106-97-8 - 203-448-7, 01-2119474691-32	
Hydrocarbons, C7, n-alkanes,isoalkanes, cyclics	927-510-4, 01-2119475515-33-xxxx	> 50%

4. First-aid measures

Inhalation : Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact : Wash off with soap and water. Get medical attention if irritation develops and

persists.

: Do not rub eyes. Rinse with water. Get medical attention if irritation develops Eye contact

and persists.

: Get medical attention immediately, Rinse mouth. Do not induce vomiting. Ingestion

Most important : May cause eye, skin and respiratory tract irritation. Diarrhea. May cause

symptoms/effects, acute and drowsiness and dizziness. Irritation of eyes, nose and throat. skin Irritation.

delayed

Indication of immediate

: Provide general supportive measures and treat symptomatically.

medical attention and special treatment needed

General information : Ensure that medical personnel are aware of the material(s) involved, and take

precautions to protect themselves.



5. Firefighting Measures:

Suitable extinguishing media : Water fog. Foam. Dry chemical powder. Carbon dioxide (Co2). Unsuitable extinguishing media: Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the: Pressurized container may explode when exposed to heat or flame. During fire, gases hazardous to health may be formed.

chemical

Special protective equipment

: Self-contained breathing apparatus and full protective clothing must be and precautions for firefighters worn in case of fire.

: Cool containers exposed to heat with water spray and remove container, if Fire-fighting

equipment/instructions no risk is involved. Containers should be cooled with water to prevent vapor

pressure build up.

Specific methods : Move containers from fire area if you can do so without risk.

General fire hazards : Extremely flammable aerosol.

6. Accidental release measures:

equipment and emergency procedures

Personal precautions, protective: Keep unnecessary personnel away. Use only non-sparking tools. Wear appropriate personal protective equipment. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained.

Methods and materials for containment and cleaning up : Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. The product is immiscible with water and will spread on the water surface. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Use water spray to reduce vapors or divert vapor cloud drift. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. For waste disposal, see

section 13 of the SDS

Environmental precautions

: Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Inform appropriate managerial or supervisory personnel of all environmental releases

7. Handling and storage:

Precautions for safe handling

: Pressurised containers: Do not pierce or burn even after use. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Explosion proof exhaust ventilation is recommended. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Avoid prolonged exposure.

Conditions for safe storage, including any incompatibilities : Level 1 Aerosol.

Do not handle or store near an open flame, heat or other sources of ignition. Do not puncture, incinerate or crush. Store away from incompatible materials (see Section 10 of the SDS). Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122°F.

8. Exposure controls/personal protection:

Occupational exposure limits

US OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Chemical name	CAS number	Туре	Value	
Hydrocarbons, C7, n-alkanes,	142-82-5	PEL	400 ppm	
isoalkanes, cyclics				
Butane	106-97-8	PEL	800 ppm	

US ACGIH Threshold Limit Values

Chemical name	CAS number	Туре	Value	
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	142-82-5	TWA	500 ppm	
Butane	106-97-8	TWA	1000 ppm	



US NIOSH: Pocket Guide to Chemical Hazards

Chemical name	CAS number	Туре	Value
Hydrocarbons, C7, n-alkanes,	142-82-5	TWA	100 ppm
isoalkanes, cyclics		STEL	150 ppm
Butane	106-97-8	TWA	800 ppm
Biological limit values Exposure guidelines Appropriate engineering controls	 No biological exposure limits noted for the ingredient(s). No exposure standards allocated. Explosion-proof general and local exhaust ventilation. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. 		

Individual protection measures, such as personal protective equipment

Eye/face protection : Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection : For prolonged or repeated skin contact, use suitable protective gloves.

Other : Wear suitable protective clothing.

Respiratory protection : Chemical respirator with organic vapor cartridge and full facepiece. Thermal hazards : Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations. When using, do not eat, drink or smoke. Always observe good personal

hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective

equipment to remove contaminants.

9. Physical and chemical properties of active component

Appearance : Colourless liquid

Physical state : Liquid
Form : Aerosol
Color : Colourless
Odour : Blant

Odour threshold : Not available.

pH : NA Melting point/freezing point : NA

Initial boiling point and boiling : Not available

range

Flash point : -4°C, 24.8°F.

Evaporation rate : Not available

Flammability (solid, gas) : Not available.

Upper/lower flammability or

explosive limits

Flammability limit – lower (%) : Not available. Flammability limit – upper (%) : Not available.

Explosive limit – lower (%) : 1% Explosive limit – upper (%) : 6.7%

Vapor pressure : Aerosol: 65psi at 24°C, 75°F.

Vapor density : Not relevant.

Relative gravity : 0.76

Solubility(ies)

Solubility (water) : Soluble in water Partition coefficient (n-octanol/: Not relevant.

water)

Auto-ignition temperature : >400°C, >752°F
Decomposition temperature : Not available.
Viscosity : Not relevant.
VOC (Weight %) : 760 g/l.



10. Stability and reactivity

Reactivity : The product is stable and non-reactive under normal conditions of use,

storage and transport.

Chemical stability : Material is stable under normal conditions.

Possibility of hazardous reactions: No dangerous reaction known under conditions of normal use.

Conditions to avoid : Avoid temperatures exceeding the flash point. Contact with incompatible

materials. Avoid temperatures above 122°F (50°C).

Incompatible materials : Strong oxidizing agents

Hazardous decomposition

products

: No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of

exposure

Ingestion : Expected to be a low ingestion hazard.
Inhalation : Inhalation may cause respiratory irritation.

Skin contact : May irritate the skin. Eye contact : May irritate the eyes.

Symptoms related to the physical, chemical and toxicological characteristics

: May cause eye, skin and respiratory tract irritation, Diarrhea. May cause drowsiness and dizziness. Headache. Nausea, vomiting. Irritation of nose and throat. Aspiration may cause pulmonary edema and pneumonitis. Irritation of eyes and mucous membranes. Skin irritation. High concentrations: Inhalation of propellant may cause respiratory irritation, dizziness, nausea, or drowsiness.

Information on toxicological effects

Acute toxicity May be fatal if swallowed and enters airways. Narcotic effects.

Skin corrosion/irritation : Prolonged skin contact may cause temporary irritation.
Serious eye damage/eye : Direct contact with eyes may cause temporary irritation.

irritation : Not a respiratory sensitizer.

Respiratory sensitization : This product is not expected to cause skin sensitization.

Skin sensitization : No data available to indicate product or any components present at greater

Germ cell mutagenicity : than 0.1% are mutagenic or genotoxic.

Carcinogenicity: This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or

: OSHA.

Reproductive toxicity

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

Specific target organ toxicity - : Not classified.

single exposure

Aspiration hazard Not an aspiration hazard.

Chronic effects : Prolonged inhalation may be harmful.

12. Ecological information:

Ecotoxicity : Toxic to aquatic organisms.

Persistence and degradability : No data is available on the degradability of this product.

Bioaccumulative potential : No data available for this product.

Mobility in soil : Not available.

Other adverse effects : No other adverse environmental effects (e.g. ozone depletion,

photochemical ozone creation potential, endocrine disruption, global

warming potential) are expected from this component.

13. Disposal considerations:

Disposal instructions : Collect and reclaim or dispose in sealed containers at licensed waste disposal

site. Dispose of contents /container in accordance with local/ regional/

national/international regulations.

Waste from residues / unused

products

: Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

14. Transport Information:

DOT

UN number : Un1950
UN proper shipping name : Aerosols
Transport hazard class(es) : 2.1
Subsidiary classes : -



Label(s) : Limited Quantity, Class 2.1

Packing group : Y203

Special precautions for user : Read safety instructions, SDS and emergency procedures before handling.

Packaging exceptions : 306
Packaging non bulk : None.
Packaging bulk : None

IATA

UN number : Un 1950 UN proper shipping name : Aerosols Transport hazard class(es) : 2.1 Subsidiary classes : -

Label(s) : Limited Quantity, Class 2.1

Packing group : Y203 Environmental hazards : No. ERG Code : 10L

Special precautions for user : Read safety instructions, SDS and emergency procedures before handling.

IMDG

UN number : Un 1950
UN proper shipping name : Aerosols
Transport hazard class(es) : 2.1
Subsidiary classes : -

Label(s) : Limited Quantity, Class 2.1

Packing group : Not applicable

Environmental hazards

Marine pollutant : No.

EmS : Not available

Special precautions for user : Read safety instructions, SDS and emergency procedures before handling. Transport in bulk according : Not established

to Annex II of MARPOL 73/78

and the IBC Code

15. Other information:

Further information : Health: 2 HMIS® Ratings : Flammability: 2

Physical Hazard: 0

NFPA Rating :



List of abbreviations : LD50: Lethal Dose, 50%.

PEL: Permissible exposure limit. STEL: Short term exposure limit. TWA: Time weighted average.

References : HSDB®-Hazardous Substances Data Bank

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