

Material Safety Data Sheet

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Section I - Product Identification

Manufacturer: The Chargar Corp.
299 Wellon Street
Hamden, CT 06517

Product Identifier: C202
Recommended Use: Water Repellent
Restrictions: None known

Telephone: 203-562-9948 Emergency# 1-800-922-4623
Trade Name: Enviro-Shield 40%

Section II - Hazardous Ingredients

Emergency Overview

Other hazards which do not result in classification

May form explosive peroxides.

WHMIS Classification

B2 Flammable liquid

D2B Toxic Material Causing Other Toxic Effects



Flammable liquid

Specific target organ toxicity - single exposure
Moderate eye irritant

GHS Classification

Flammable liquids (Category 2)

Skin corrosion/irritation (Category 3)

Serious eye damage/eye irritation (Category 2A)

Specific target organ toxicity - single exposure (Category 3), Central nervous system

GHS Label elements, including precautionary statements

Pictogram

Signal word Danger

Hazard statement(s)

H225 Highly flammable liquid and vapour.

H316 Causes mild skin irritation.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

Precautionary statement(s)

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.

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

HMIS Classification

Health hazard: 2

Chronic Health Hazard: *

Flammability: 3

Physical hazards: 0

Reactivity: 1

NFPA Rating

Health hazard: 2

Fire: 3

Reactivity Hazard: 1

Section III - Composition on Ingredients

Chemical Name	CAS No	Weight %	Trade Secret
Isopropyl Alcohol	67-63-0	80-93	*
Organofunctional polysiloxane	Trade Secret	7-20	*

*The exact percentage (concentration) of composition has been withheld as a trade secret.

Section IV - First Aid Measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Section V - Fire-Fighting Measures

Conditions of flammability

Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

Hazardous combustion products

Hazardous decomposition products formed under fire conditions. - Carbon oxides

Explosion data - sensitivity to mechanical impact

No data available

Explosion data - sensitivity to static discharge

No data available

Further information

Use water spray to cool unopened containers.

Section VI - Accidental Release Measures

Personal precautions

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Methods and materials for containment and cleaning up. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

Section VII - Handling and Storage

Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use explosion-proof equipment. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII - Exposure Controls/Personal Protection

Components	CAS-No.	Value type (Form of exposure)	Control parameters/ Permissible concentration	Basis
Isopropyl alcohol	67-63-0	TWA	200PPM	ACGIH
		STEL	400PPM	ACGIH
		TWA	400PPM	OSHA Z-1
			980mg/m3	

Monitoring Methods

Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls. Validated exposure measurement methods should be applied by a competent person and samples analysed by an accredited laboratory. Examples of sources of recommended exposure measurement methods are given below or contact the supplier. Further national methods may be available.

Engineering measures

Appropriate measures include: Use sealed systems as far as possible. Adequate explosion-proof ventilation to control airborne concentrations below the exposure guidelines/limits. Local exhaust ventilation is recommended. Firewater monitors and deluge systems are recommended. Eye washes and showers for emergency use.

General Information: Always observe good personal hygiene measures, such as washing hands after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping. Define procedures for safe handling and maintenance of controls. Educate and train workers in the hazards and control measures relevant to normal activities associated with this product. Ensure appropriate selection, testing and maintenance of equipment used to control exposure, e.g. personal protective equipment, local exhaust ventilation. Drain down system prior to equipment break-in or maintenance.

Personal protective equipment

Respiratory protection:

Check with respiratory protective equipment suppliers. Where air-filtering respirators are unsuitable (e.g. airborne concentrations are high, risk of oxygen deficiency, confined space) use appropriate positive pressure breathing apparatus. Where air-filtering respirators are suitable, select an appropriate combination of mask and filter. Respirator selection, use and maintenance should be in accordance with the requirements of the OSHA Respiratory Protection Standard, 29 CFR 1910.134.

Hand protection:

Where hand contact with the product may occur the use of gloves approved to relevant standards made from the following materials may provide suitable chemical protection. Longer term protection: Butyl rubber. Nitrile rubber. Incidental contact/Splash protection: PVC or neoprene rubber gloves. Contaminated gloves should be replaced.

Eye protection :

Wear goggles for use against liquids and gas. Wear full face shield if splashes are likely to occur.

Skin and body protection :

Wear antistatic and flame retardant clothing if a local risk assessment deems it so. Skin protection is not required under normal conditions of use. For prolonged or repeated exposures use impervious clothing over parts of the body subject to exposure. If repeated and/or prolonged skin exposure to the substance is likely, then wear suitable gloves tested to relevant Standard, and provide employee skin care programmes.

Protective measures :

Personal protective equipment (PPE) should meet recommended national standards. Check with PPE suppliers.

Hygiene measures :

Wash hands before eating, drinking, smoking and using the toilet. Launder contaminated clothing before re-use.

IX - Physical and Chemical Properties

Physical state: Liquid

Appearance: clear

Color: white

Odor: Characteristic

Odor threshold: No information available

<u>Property</u>	<u>Values</u>	<u>Remarks•Method</u>
pH	N/A	pH Range 4-5
Melting point/freezing point	-88°C / -126 °F	
Boiling point/boiling range	82°C / 180°F	
Flash point	12°C /54°F	ASTM D 3278
Evaporation rate	1.5 (Method ASTM D3539, nBuAc=1	
Flammability (solid, gas)	No information available	
Flammability Limits in Air		
Upper flammability limits	upper flammability limit 12 %(V)	
Lower flammability limit	lower flammability limit 2 %(V)	
Vapor pressure	6.020 Pa (20 °C / 68 °F)	
Vapor density	2 (20 °C / 68 °F)	
Specific Gravity	No information available	
Water solubility	completely soluble	
Solubility in other solvents	Readily soluble in various organic solvents.	
Partition coefficient	log Pow: 0.05	
Autoignition temperature	425 °C / 797 °F Method: ASTM D-2155	
Decomposition temperature	No information available	
Kinematic viscosity	No information available	
Dynamic viscosity	2.43 mPa.s	
Explosive properties	Classification Code: Not classified	
Oxidizing properties	Not Applicable	

X - Stability and Reactivity

Reactivity : The product does not pose any further reactivity hazards in addition to those listed in the following sub-paragraph.

Chemical stability : No hazardous reaction is expected when handled and stored according to provisions.

Possibility of hazardous reactions: Reacts with strong oxidising agents.

Conditions to avoid : Avoid heat, sparks, open flames and other ignition sources. Prevent vapour accumulation. In certain circumstances product can ignite due to static electricity.

Incompatible materials : Strong oxidising agents

Hazardous decomposition products: : Thermal decomposition is highly dependent on conditions. A complex mixture of airborne solids, liquids and gases including carbon monoxide, carbon dioxide, sulphur oxides and unidentified organic compounds will be evolved when this material undergoes combustion or thermal or oxidative degradation.

XI - Toxicological Information

Basis for assessment : Information given is based on product testing.

Information on likely routes of exposure: Exposure may occur via inhalation, ingestion, skin absorption, skin or eye contact, and accidental ingestion.

Acute toxicity

Product:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg Remarks: Low toxicity

Acute inhalation toxicity : Remarks: Low toxicity by inhalation.

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg Remarks: Low toxicity

Skin corrosion/irritation

Product:

Remarks: Not irritating to skin.

Serious eye damage/eye irritation

Product:

Remarks: Causes serious eye irritation.

Respiratory or skin sensitisation

Product:

Remarks: Not expected to be a sensitiser.

Germ cell mutagenicity

Product:

: Remarks: Not mutagenic.

Carcinogenicity

Product:

Remarks: Not a carcinogen.

XII - Ecological Information

Persistence and degradability

Product:

Biodegradability : Remarks: Readily biodegradable. Oxidises rapidly by photo-chemical reactions in air.

Bioaccumulative potential

Product:

Bioaccumulation : Remarks: Not expected to bioaccumulate significantly.

Mobility in soil

Product:

Mobility : Remarks: Dissolves in water. If the product enters soil, one or more constituents will or may be mobile and may contaminate groundwater.

Other adverse effects

no data available

XIII - Disposal Considerations

Waste treatment methods

Disposal methods

Waste from residues : Recover or recycle if possible. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal methods in compliance with applicable regulations. Do not dispose into the environment, in drains or in water courses Waste product should not be allowed to contaminate soil or water.

Contaminated packaging : Drain container thoroughly. After draining, vent in a safe place away from sparks and fire. Residues may cause an explosion hazard. Do not, puncture, cut, or weld uncleaned drums. Send to drum recoverer or metal reclaimer.

Local legislation Remarks : Local regulations may be more stringent than regional or national requirements and must be complied with. Disposal should be in accordance with applicable regional, national, and local laws and regulations. Comply with any local recovery or waste disposal regulations.

XIV - Transportation Information

National Regulations

US Department of Transportation Classification (49 CFR Parts 171-180)

UN/ID/NA number : UN 1219
Proper shipping name : ISOPROPANOL
Class : 3
Packing group : II
Labels : 3
ERG Code : 129
Marine pollutant : no

Special precautions for user

Remarks : Special Precautions: Refer to Chapter 7, Handling & Storage, for special precautions which a user needs to be aware of or needs to comply with in connection with transport.

XV - Regulatory Information

OSHA Hazards : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Fire Hazard, Immediate (Acute) Health Hazard

SARA 302 : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Water Act

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

Pennsylvania Right To Know

Isopropyl alcohol 67-63-0

New Jersey Right To Know

Isopropyl alcohol 67-63-0

XVI - Other Information

Further information

NFPA Rating (Health, Fire, Reactivity) 1, 3, 0

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.