

GULF ADVANCED CABLE INSULATION

Safety Data Sheet

According to Regulation (EC) No. 1272/2008, Regulation (EC) 1907/2006

1. Identification of the substance/mixture and of the responsible company

1.1. Product Identifier: CLNS-8141S Wire and Cable Compound

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

Identified uses: molding compound for electrical wire and cable

Uses advised against: intended only for recommended use

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

Gulf Advanced Cable Insulation

PO Box 12021

Jubail Industrial City - 31961

Kingdom Of Saudi Arabia.

Website: www.sipchem.com/en/affiliates2.htm

1.4. Emergency telephone number: 00966-3-359 9985 (24 hours)

2. Hazards Identification

2.1. Classification of the substance or mixture:

Classification of Labeling in accordance with the CLP Regulations:

International Chemical Identification	EC No	CAS No	Classification		Labeling			Specific Conc. Limits, M-factors	Notes
			Hazard Class and Category Code(s)	Hazard statement Code(s)	Pictogram Signal Word Code(s)	Hazard Statement Code(s)	Suppl. Hazard statement Code(s)		
Low Density Polyethylene	----	9002-88-4	Not classified	Not classified	Not classified	Not classified		>95%	
Peroxide crosslinker	Confidential	Confidential	O:R7 Xi:R36/38 N:51/53	H242 H315/319 H411	GHS02 GHS07 GHS09	R7 R36/38 R51/53		<3%	
Antioxidant	Confidential	Confidential	Xi: Eye Irr 2 Skin 1	H317 H391 H400 H410	GHS 07 GHS09	R36/38 R51/53		0.1-1%	

Classification according to Regulation 1272/2008/EC (CLP)

Basis for Classification this substance is classified based on Directive 1272/2008/EC and its amendments (CLP Regulation, GHS)

CCBS-8735BK Wire and Cable Compound

Symbol(s):



Signal Word: WARNING

SAFETY DATA SHEET**Emergency overview: WARNING**

May form combustible dust-air mixtures. Avoid skin contact. Avoid inhalation of hot resin fumes and vapors.

Potential chronic health effects:**CARCINOGENIC EFFECTS:** No carcinogenic effects reported**MUTAGENIC EFFECTS:** No mutagenic effects reported**REPRODUCTION TOXICITY:** No reproductive toxicity effects reported.

2.2. Label: See table above.

2.3. Other hazards: None known.

3. Composition/information on ingredients

Formula	N/A Blend of polymers and additives
CAS-No.	9002-88-4
EC-No.	----

4. First Aid Measures

4.1. Description of first aid measures

Eye Contact: The product is an inert solid. Treat as for any foreign object in eye. Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately if eyes are irritated.

Skin Contact: First aid is normally not required. For contact with hot products, immediately flush skin with plenty of cold water for at least 15 minutes to dissipate heat. Remove contaminated clothing and shoes. Treat as for skin burns. Get medical attention.

Inhalation: For exposure to dusts, vapors and/or aerosols formed at elevated temperatures, move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.

Ingestion: Not a likely route of exposure. Wash out mouth and water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.

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

Skin and eye burns from molten product. Skin and eye irritation from product dusts. Irritated respiratory tract from dust or fume inhalation.

4.3. Indication of immediate medical attention and special treatment needed:

Treat symptomatically and supportively.

5. Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Water spray (fog), dry chemical, CO₂, foams

Unsuitable extinguishing media: Do not use a water jet.

5.2. Special hazards arising from the substance or mixture:

Dusts may form explosive dust-air mixtures. Toxic hydrocarbons may be released at elevated temperatures or in a fire.

5.3. Advice for fire fighters:

Special protective equipment for fire fighters: Fire fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Further information: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving an personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. Do not allow fire extinguishing water to contaminate surface or groundwater systems.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures:

Advice for non-emergency personnel: Evacuate the danger zone; follow emergency precautions. Secure emergency assistance immediately. Avoid contact with the material; do not breath dusts. If possible, provide additional ventilation.

Advice for emergency responders: Do not take action without proper training and emergency equipment. See Section 8 for additional information. Evacuate surrounding areas. Eliminate all ignition sources including flares and all open flames. Avoid all contact with spilled material. Maintain adequate ventilation and wear appropriate respiratory protection.

6.2. Environmental precautions:

Avoid dispersal of spilled material, runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3. Methods and materials for containment:

Stop spill if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, surface waters, basements or confined areas. Wash spillage into effluent treatment plant. Contain and collect spillage using appropriate personal protective equipment. Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products or if a risk assessment indicates this is necessary. Collect and contain spillage and place in a container for disposal according to local regulations. Use spark-proof tools and explosion proof equipment if flammable gasses, liquids or vapors are present in the spill area.

6.4. Reference to other sections:

See disposal instruction 13 and exposure controls Section 8.

7. Handling and storage

7.1. Precautions for safe handling:

Observe all label precautions. Use appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash

hands and face before eating, drinking and smoking. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material.

Advice on protection against fire and explosion: Keep away from flames and sources of ignition – including static.

7.2. Conditions for safe storage, including any incompatibilities:

Store in accordance with local regulations. Store in a segregated and approved area. Store in original or bulk storage container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials, amines and alkalis.

Bulk storage should be in approved vessels, preferably steel that is grounded and vented. Keep use containers tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

7.3. Specific end uses:

No other additional special end uses are anticipated.

8. Exposure controls/personal protection

8.1. Control parameters:

Personal, workplace or environmental monitoring may be necessary to ensure exposures are below recommended and legal limits.

Exposure limits:

ACGIH, NIOSH, OSHA (US), Mexico, and EU have not developed specific exposure limits for LDPE copolymers or low density polyethylene. Nuisance dust exposure limits are 10mg/m³ and 3 mg/m³ for respirable particles (8 hr TWA). Use recommended safe handling practices to minimize unnecessary exposure.

Exposure Limits for Chemicals which may be generated during processing

During processing dusts or resin vapors (molten resin) may be released into the work environment. Pneumatic conveying may generate static electric charges.

8.2. Exposure controls:

Engineering measures: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits.

Individual protection measures:

Hygiene measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Discard contaminated clothing or wash thoroughly before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to product dusts, liquid splashes or mists. Goggles should be worn where eye contact is possible.

Hand protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is required.

Glove material: cotton or plastic (thermal resistant)

Glove thickness: 0.7 mm or thicker

Break through time: > 240 minutes

Other protective equipment: Flame retardant antistatic protective clothing may be required if used in areas where flammables are processed.

Respiratory protection: A properly fitted air purifying respirator or air supply respirator should be worn if a risk assessment indicates that respiratory protection is necessary. Respirator selection must be based upon known or measured levels of exposure.

Environmental exposure controls: Ventilation and engineering controls to protect workers and ventilate work area to at or below recommended employee exposure levels. Technical measures are preferred over use of personal protective equipment. Environmental controls, such as scrubber or thermal oxidizer may be required to prevent process releases to the atmosphere. Do not empty or flush into drains.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties:

Physical State: Solid, wax like	Appearance: waxy resin
Color: white or milky	Physical Form: solid pellets
Odor: odorless	Odor Threshold: Odorless
Texture: wax like solid	pH: not applicable
Melting Point: 80-120°C	Boiling Point: N/A
Evaporation Rate: not applicable	Flash Point: Not available
LEL: not applicable	OSHA Flammability Class: not applicable
UEL: not applicable	Autoignition: 435°C
Vapor Pressure: Not applicable	Vapor Density (air = 1): Not applicable
Density: Not available	Specific Gravity (water = 1): 0.910-0.925
Water Solubility: insoluble	Coeff. Water/Oil Dist: Not available
Viscosity: not applicable	Volatility: 0 %
Molecular Weight: 10000-100000+	Molecular Formula: (C ₂ H ₄) _n

10. Stability and reactivity

10.1. Reactivity:

No hazardous reactivity.

10.2. Chemical stability:

Stable at normal temperatures and pressure. Storage at elevated temperatures may cause product degradation.

10.3. Possibility of hazardous reactions:

Does not react.

10.4. Conditions to avoid:

Avoid dust-air mixtures, static generation. Avoid contact with incompatible materials

10.5. Incompatible materials:

Avoid strong oxidizing materials.

- 10.6. Hazardous decomposition products:
Thermal decomposition will yield oxides of carbon.

11. Toxicological information

- 11.1. Information on toxicological effects:

<u>Low Density Polyethylene</u>	CAS 9002-88-4
<u>Acute oral toxicity LD50 rat:</u>	>2000 mg/kg
<u>Dermal LD50 rabbit:</u>	No skin irritation
<u>Acute inhalation toxicity:</u>	No data available, inhalation of dusts/fumes may cause irritation and/or sensitization
<u>Skin irritation:</u>	Non irritating
<u>Eye irritation (rabbit):</u>	No eye irritation
<u>Sensitization (guinea pig):</u>	No data available
<u>Genotoxicity and Reproductive Effects:</u>	No data available
Ames test:	No data available
<u>Specific target organ toxicity - single exposure:</u>	No data available.
<u>Specific target organ toxicity - repeated exposure:</u>	No data available.
<u>Aspiration hazard:</u>	No information available

- 11.2. Additional information:

Inhalation of resin fumes may cause respiratory irritation or distress.

Further data: Handle using good occupational and environmental health practices.

12. Ecological information

- 12.1. Toxicity

<u>Toxicity in fish LC50:</u>	No data available
<u>Toxicity to daphnia and other aquatic invertebrates:</u>	No data available
<u>Toxicity to algae</u>	No data available

- 12.2. Persistence and degradability:

No data available

- 12.3. Bio accumulative potential:

Bioaccumulation not expected.

- 12.4. Mobility in soil:

No information available.

- 12.5. Results of PBT and vPvB assessment:

Assessment not available.

- 12.6. Other adverse effects:

No additional environmental adverse effects are known.

Additional ecological information: Do not allow product to enter surface waters, wastewater or soil.

13. Disposal considerations

Waste treatment methods: The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

14. Transport Information

The transport regulations are cited according to international and/or harmonized transport regulations. Possible national deviations and country specific requirements are not considered.

US DOT Information:	No Classification assigned.
TDG Information:	No Classification assigned.
ADR Information:	No Classification assigned.
RID Information:	No Classification assigned.
IATA Information:	No Classification assigned.
ICAO Information:	No Classification assigned.
IMDG Information:	No Classification assigned.

15. Regulatory information

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

Korea:

- Occupational Safety and Health Regulation: Not regulated
- Toxic Chemical Control Act: KE-28877
- Dangerous Material Safety Management Regulation:
It can be classified as special combustible materials when storage and handling (>3000kg). Therefore, it restricted to mark objects (name of goods, maximum quantities, strictly prohibited firearms), installation height and area, distance between products, fire protection facilities
- Wastes Control Act: Public Controlled Waste (other synthetic resins, 01-01-07)

EU classification:

- Classification: Not available
- Risk phrases: Not available
- Safety phrases: Not available
- EU REACH SVHC Free Certified(Candidate list Updated by ECHA on 30th March, 2010)

U.S.A management information

- **OSHA:** Not regulated
- **CERCLA:** Not regulated
- **EPCRA 302:** Not regulated
- **EPCRA 304:** Not regulated
- **EPCRA 313:** Not regulated
- **TSCA Section 8(b) Inventory :** XU (polymeric components)

Japan management information

- Existing and New Chemical Substances (ENCS): (6)-1; (6)-120; (6)-402

China management information

- Inventory of Existing Chemical Substances (IECSC): Present

Canada management information

- Domestic Substances List (DSL): Present

New Zealand management information

- Inventory of Chemicals (NZIoC): May be used as a single component chemical under an appropriate group standard.

Philippines management information

- Inventory of Chemicals and Chemical Substances (PICCS): Present

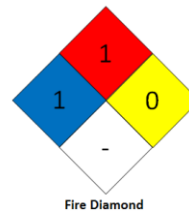
Substance of Rotterdam Protocol: Not applicable

Substance of Stockholm Protocol: Not applicable

Substance of Montreal Protocol: Not applicable

15.2. Chemical Safety Assessment:

Sipchem has not conducted a chemical safety assessment for this product.

NFPA Fire Diamond**16. Other information**

16.1. Training Advice:

Provide safety information, instruction and training to operators handling CLNS-8141S.

The information and recommendations herein are taken from data contained in independent, industry recognized references. Although reasonable care has been taken in the preparation of the information herein, Sipchem and Gulf Advanced Cables Insulation make no guarantee, warranty (express or implied) or other representation and assume no responsibility as to the accuracy or suitability of such information for application of the information, since conditions of its use are beyond control of these companies. Sipchem and Gulf Advanced Cables Insulation shall not bear any liability whatsoever for any loss or damage incurred in connection with the use of this substance.