

S263.9 ETFE COMPOUND SEMICOND LD 15

 Version Number 1.0
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 Revision Date 11/29/2015
 Print Date 12/02/2015

SAFETY DATA SHEET

S263.9 ETFE COMPOUND SEMICOND LD 15

Section 1. Identification

GHS product identifier : S263.9 ETFE COMPOUND SEMICOND LD 15

Chemical name: MixtureCAS number: MixtureOther means of identification: CC01059929

Product type : solid

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

Product use : Industrial applications. Plastics.

Supplier's details : Colorant Chromatics

Chromatics, Inc.

19 Francis J. Clarke Circle, Bethel, CT 06801, USA

+1 800 242 2296

Emergency telephone number (with hours of operation)

tione number : CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or

accident).

Section 2. Hazards identification

This mixture has not been evaluated as a whole for health effects. All ingredients are bound in a polymer matrix and potential for hazardous exposure as shipped is minimal. Fluoropolymers heated above 350 C can evolve hydrogen fluoride and carbonyl fluoride as degradation products. Processing at elevated temperatures may release fumes that can cause polymer fume fever. The end-user (fabricator) should take necessary precautions (mechanical ventilation, local exhaust, respiratory protection, etc.) to protect employees from exposure to any vapors or dusts that may be released during heating or fabrication. See Sections 8 and 11 for special precautions. After handling, always wash hands thoroughly with soap and water.

OSHA/HCS status : While this material is not considered hazardous by the OSHA Hazard

Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and

other users of this product.

Classification of the substance or

mixture

Not classified.



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GHS label elements

Signal word : No signal word.

Hazard statements : No known significant effects or critical hazards.

Precautionary statements

General:Not applicable.Prevention:Not applicable.Response:Not applicable.Storage:Not applicable.Disposal:Not applicable.Supplemental label elements:None known.Hazards not otherwise classified:None known.

Section 3. Composition/information on ingredients

Substance/mixture: MixtureChemical name: MixtureOther means of identification: CC01059929

CAS number/other identifiers

Ingredient name	%	CAS number
Carbon black	10 - 30	1333-86-4
Zinc oxide	5 - 10	1314-13-2

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures



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Eye contact Immediately flush eyes with plenty of water, occasionally lifting the

upper and lower eyelids. Check for and remove any contact lenses.

Get medical attention if irritation occurs.

Inhalation Remove victim to fresh air and keep at rest in a position comfortable

for breathing. Get medical attention if symptoms occur.

Skin contact Flush contaminated skin with plenty of water. Remove contaminated

clothing and shoes. Get medical attention if symptoms occur.

Ingestion Wash out mouth with water. Remove victim to fresh air and keep at

rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by

medical personnel. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact No known significant effects or critical hazards. No known significant effects or critical hazards. Inhalation No known significant effects or critical hazards. **Skin contact** No known significant effects or critical hazards. Ingestion

Over-exposure signs/symptoms

Eye contact No specific data. Inhalation No specific data. Skin contact No specific data. No specific data. **Ingestion**

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician Treat symptomatically. Contact poison treatment specialist

immediately if large quantities have been ingested or inhaled.

Specific treatments No specific treatment.

Protection of first-aiders No action shall be taken involving any personal risk or without

suitable training.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media In case of fire, use water spray (fog), foam, dry chemical or CO₂.



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Unsuitable extinguishing media : None known.

Specific hazards arising from the chemical

No specific fire or explosion hazard.

Hazardous thermal decomposition products

Decomposition products may include the following materials:

carbon dioxide carbon monoxide halogenated compounds metal oxide/oxides

Special protective actions for firefighters 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 any

personal risk or without suitable training.

Special protective equipment for fire-fighters

Fire-fighters should wear appropriate protective equipment and selfcontained breathing apparatus (SCBA) with a full face-piece operated

in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : No action shall be taken involving any personal risk or without

suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

For emergency responders : If specialised clothing is required to deal with the spillage, take note of

any information in Section 8 on suitable and unsuitable materials. See

also the information in "For non-emergency personnel".

Environmental precautions : Avoid dispersal of spilled material and 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).

Methods and materials for containment and cleaning up

Small spill : Move containers from spill area. Vacuum or sweep up material and

place in a designated, labeled waste container. Dispose of via a

licensed waste disposal contractor.

Large spill : Move containers from spill area. Prevent entry into sewers, water

courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency

contact information and Section 13 for waste disposal.



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Section 7. Handling and storage

Precautions for safe handling

Protective measures

Advice on general occupational

hygiene

Put on 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. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container 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.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits		
Carbon black	OSHA PEL 1989 (1989-03-01)		
	PEL: Permissible Exposure Level 3.5 mg/m3		
	OSHA PEL (1993-06-30)		
	PEL: Permissible Exposure Level 3.5 mg/m3		
	NIOSH REL (1994-06-01)		
	Time Weighted Average (TWA) 3.5 mg/m3		
	Time Weighted Average (TWA)		
	ACGIH TLV (2010-12-06)		
	TLV-TWA: Threshold Limit Value - Time weighted average PEL:		
	Permissible Exposure Level 3 mg/m3 Form: Inhalable fraction		
Zinc oxide	OSHA PEL 1989 (1989-03-01)		
	PEL: Permissible Exposure Level 5 mg/m3 Form: Fume		
	Short Term Exposure Limit value for a 15-minute reference		
	period expressed in parts per million or in mg/m3. 10 mg/m3		
	Form: Fume		
	PEL: Permissible Exposure Level 10 mg/m3 Form: Total dust		



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PEL: Permissible Exposure Level 5 mg/m3 Form: Respirable

fraction

OSHA PEL (1993-06-30)

PEL: Permissible Exposure Level 5 mg/m3 Form: Fume

PEL: Permissible Exposure Level 15 mg/m3 Form: Total dust **PEL: Permissible Exposure Level** 5 mg/m3 Form: Respirable

fraction

NIOSH REL (1994-06-01)

Time Weighted Average (TWA) 5 mg/m3 Form: Dust and fumes Short Term Exposure Limit value for a 15-minute reference period expressed in parts per million or in mg/m3. 10 mg/m3

Form: Fume

Exposure limit value-ceiling concentration 15 mg/m3 Form: Dust

ACGIH TLV (2003-01-01)

TLV-TWA: Threshold Limit Value - Time weighted average PEL: Permissible Exposure Level 2 mg/m3 Form: Respirable fraction TLV-STEL: Threshold Limit Value - Short Time Exposure Level

10 mg/m3 Form: Respirable fraction

Appropriate engineering controls

Good general ventilation should be sufficient to control worker

exposure to airborne contaminants.

Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be

necessary to reduce emissions to acceptable levels.

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. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety

showers are close to the workstation location.

Safety eyewear complying with an approved standard should be used Eye/face protection

> when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a

higher degree of protection: safety glasses with side-shields.

Skin protection

Chemical-resistant, impervious gloves complying with an approved **Hand protection**

standard should be worn at all times when handling chemical products



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if a risk assessment indicates this is necessary.

Body protection: Personal protective equipment for the body should be selected based

on the task being performed and the risks involved and should be

approved by a specialist before handling this product.

Other skin protection : Appropriate footwear and any additional skin protection measures

should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this

product.

Respiratory protection : Use a properly fitted, particulate filter respirator complying with an

approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the

selected respirator.

Section 9. Physical and chemical properties

Appearance

solid [Pellets.] Physical state Color WHITE Odor Not available. **Odor threshold** Not available. Not available. pН **Melting point** Not available. **Boiling point** Not available. Flash point Not available. **Burning time** Not available. **Burning rate** Not available. **Evaporation rate** Not available. Flammability (solid, gas) Not available.

Lower and upper explosive : Lower: Not available. (flammable) limits : Upper: Not available.

Vapor pressure

Vapor density

Relative density

Solubility

Solubility in water

Partition coefficient: n
Not available.

Not available.

Not available.

Not available.

Not available.

octanol/water

Auto-ignition temperature: Not available.Decomposition temperature: Not available.SADT: Not available.

Viscosity : Dynamic: Not available.

Kinematic: Not available.



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Section 10. Stability and reactivity

Reactivity: No specific test data related to reactivity available for this product or

its ingredients.

Chemical stability : Stable under recommended storage and handling conditions (see

Section 7).

Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will

not occur.

Conditions to avoid : Keep away from extreme heat and oxidizing agents.

Incompatible materials : Keep away from strong acids.

Oxidizer.

Hazardous decomposition : Under normal conditions of storage and use, hazardous decomposition

products should not be produced.

Section 11. Toxicological information

This mixture has not been evaluated as a whole for health effects. Exposure effects listed are based on existing health data for the individual components which comprise the mixture.

Information on toxicological effects

Acute toxicity

products

Product/ingredient name	Result	Species	Dose	Exposure
Carbon black				
	LD50 Oral	Rat	15,400 mg/kg	-
Zinc oxide				

Conclusion/Summary : No results available.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Zinc oxide	Eyes - Mild irritant	Rabbit		24 hrs	-
	Skin - Mild irritant	Rabbit		24 hrs	-

Conclusion/Summary

Skin : No results available.

Eyes : Mixture. **Respiratory** : Mixture.

Sensitization

Conclusion/Summary



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Skin : No results available.

Respiratory : Mixture.

Mutagenicity

Conclusion/Summary : No results available.

Carcinogenicity

Conclusion/Summary : No results available.

Classification

Product/ingredient	OSHA	IARC	NTP
name			
Carbon black		2B	

Reproductive toxicity

Conclusion/Summary : No results available.

Teratogenicity

Conclusion/Summary : No results available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely routes of : Not available.

exposure

Potential acute health effects

Eye contact: No known significant effects or critical hazards.Inhalation: No known significant effects or critical hazards.Skin contact: No known significant effects or critical hazards.Ingestion: No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact: No specific data.Inhalation: No specific data.

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Skin contact: No specific data.Ingestion: No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Conclusion/Summary : No results available.

General:No known significant effects or critical hazards.Carcinogenicity:No known significant effects or critical hazards.Mutagenicity:No known significant effects or critical hazards.Teratogenicity:No known significant effects or critical hazards.Developmental effects:No known significant effects or critical hazards.Fertility effects:No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Not available.

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Carbon black			
	Acute EC50 37.563 mg/l Fresh	Aquatic invertebrates.	48 h
	water	Daphnia	
	Acute LC50 61.547 mg/l Fresh	Aquatic invertebrates.	48 h
	water	Daphnia	
Zinc oxide			



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Acute LC50 2,246,000 μg/l Fresh	Fish - Fish	96 h
water		
Acute LC50 1.1 mg/l Fresh water	Fish - Fish	96 h
Acute LC50 2.525 mg/l Fresh	Fish - Fish	96 h
water		
Acute LC50 3.969 mg/l Fresh	Fish - Fish	96 h
water		
Acute LC50 98 µg/l Fresh water	Aquatic invertebrates.	48 h
	Daphnia	
Acute EC50 1 mg/l Fresh water	Aquatic invertebrates.	48 h
	Daphnia	
Acute EC50 0.622 mg/l Fresh	Aquatic invertebrates.	48 h
water	Daphnia	
Acute LC50 1.25 mg/l Fresh water	Aquatic invertebrates.	48 h
	Daphnia	
Acute EC50 0.481 mg/l Fresh	Aquatic invertebrates.	48 h
water	Daphnia	
Acute IC50 46 µg/l Fresh water	Aquatic plants - Algae	72 h
Acute IC50 63 µg/l Fresh water	Aquatic plants - Algae	72 h
Acute IC50 1.85 mg/l Marine water	Aquatic plants - Algae	96 h
Acute IC50 2.97 mg/l Marine water	Aquatic plants - Algae	96 h
Acute IC50 2.36 mg/l Marine water	Aquatic plants - Algae	96 h

Conclusion/Summary : Not available.

Persistence and degradability

Conclusion/Summary : Not available.

Bioaccumulative potential

F			
Product/ingredient name	LogPow	BCF	Potential
Zinc oxide		60,960.00	high

Mobility in soil

Soil/water partition coefficient

Not available.

(KOC)

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever

possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental



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protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

United States - RCRA Acute hazardous waste "P" List: Not listed

United States - RCRA Toxic hazardous waste "U" List: Not listed

Section 14. Transport information

U.S. DOT Classification : Not regulated for transportation.

ICAO/IATA : Consult mode specific transport rules

IMO/IMDG (maritime) : Consult mode specific transport rules

Section 15. Regulatory information

U.S. Federal regulations : United States - TSCA 12(b) - Chemical export notification: None

of the components are listed.

United States - TSCA 4(a) - Final Test Rules: Not listed
United States - TSCA 4(a) - ITC Priority list: Not listed
United States - TSCA 4(a) - Proposed test rules: Not listed
United States - TSCA 4(f) - Priority risk review: Not listed
United States - TSCA 5(a)2 - Final significant new use rules: Not

listed

United States - TSCA 5(a)2 - Proposed significant new use rules:

Not listed

United States - TSCA 5(e) - Substances consent order: Not listed United States - TSCA 6 - Final risk management: Not listed United States - TSCA 6 - Proposed risk management: Not listed United States - TSCA 8(a) - Chemical risk rules: Not listed United States - TSCA 8(a) - Dioxin/Furane precusor: Not listed United States - TSCA 8(a) - Chemical Data Reporting (CDR): Not

determined

United States - TSCA 8(a) - Preliminary assessment report

(PAIR): Not listed

United States - TSCA 8(c) - Significant adverse reaction (SAR):



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Not listed

United States - TSCA 8(d) - Health and safety studies: Not listed United States - EPA Clean water act (CWA) section 307 - Priority pollutants: Listed Zinc oxide

United States - EPA Clean water act (CWA) section 311 -

Hazardous substances: Not listed

United States - EPA Clean air act (CAA) section 112 - Accidental

release prevention - Flammable substances: Not listed

United States - EPA Clean air act (CAA) section 112 - Accidental

release prevention - Toxic substances: Not listed

United States - Department of commerce - Precursor chemical:

Not listed

Clean Air Act Section 112(b)

Hazardous Air Pollutants (HAPs)

Clean Air Act Section 602 Class I

Substances

Clean Air Act Section 602 Class II

Substances

DEA List I Chemicals (Precursor

Chemicals)

Chemicals)

Not listed

Not listed

Not listed

Not listed

DEA List II Chemicals (Essential Not listed

US. EPA CERCLA Hazardous Substances (40 CFR 302)

not applicable **SARA 311/312**

Classification Not applicable.

Composition/information on ingredients

Name	%	Classification
Carbon black	10 - 30	СН
Zinc oxide	5 - 10	АН

SARA 313

	Product name	CAS number	%
Form R - Reporting	Zinc oxide	1314-13-2	5 - 10
requirements			
Supplier notification	Zinc oxide	1314-13-2	5 - 10
			!



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SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations

Massachusetts The following components are listed:

> Carbon black Zinc oxide

New York None of the components are listed. **New Jersey** The following components are listed:

> Carbon black Zinc oxide

The following components are listed: Pennsylvania

Carbon black

Zinc oxide

California Prop. 65

WARNING: This product contains a chemical known to the State of California to cause cancer.

United States inventory (TSCA 8b) All components are listed or exempted.

Canada inventory All components are listed or exempted.

International regulations

International lists Australia inventory (AICS): All components are listed or exempted.

Taiwan inventory (CSNN): All components are listed or exempted.

Malaysia Inventory (EHS Register): Not determined.

EINECS: Not determined.

Japan inventory: Not determined.

China inventory (IECSC): All components are listed or exempted.

Korea inventory: All components are listed or exempted.

New Zealand Inventory of Chemicals (NZIoC): All components

are listed or exempted.

Philippines inventory (PICCS): Not determined.

Chemical Weapons Convention

List Schedule I Chemicals

Chemical Weapons Convention

List Schedule II Chemicals

Chemical Weapons Convention List Schedule III Chemicals

Not listed

Not listed

Not listed



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Section 16. Other information

History

Date of printing: 12/02/2015Date of issue/Date of revision: 11/29/2015Date of previous issue: 00/00/0000

Version : 1.0

Key to abbreviations: ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of

Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine

pollution)

UN = United Nations

References : Not available.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. Particularly this information may not be valid for such material used in conjunction with any other materials or in any process, unless specified in the text.