

SAFETY DATA SHEET

1. Identification

Product identifier	ASPHALT COATED STEEL PRODUCTS
Other means of identification	
SDS number	7
Product code	Various.
Recommended use	Industrial use.
Recommended restrictions	None known.
Manufacturer / Importer / Supplie	er / Distributor information
Company name	Contech Engineered Solutions, LLC
Address	9025 Centre Pointe Drive West Chester, Ohio 45069, United States
Contact person	Dan Moody
Telephone number	513-645-7055
E-mail	dmoody@conteches.com
Emergency telephone number	1-800-255-3924

2. Hazard(s) identification

Physical hazards	Not classified.
Health hazards	Not classified.
OSHA defined hazards	Not classified.
Label elements	
Hazard symbol	None.
Signal word	None.
Hazard statement	None.
Precautionary statement	
Prevention	Observe good industrial hygiene practices.
Response	Wash hands after handling.
Storage	Store away from incompatible materials.
Disposal	Dispose of waste and residues in accordance with local authority requirements.
Hazard(s) not otherwise classified (HNOC)	Not classified.

Supplemental information

Not applicable.

3. Composition/information on ingredients

Mixtures

Chemical name	CAS number	%
Iron	7439-89-6	75 -95
Asphalt	8052-42-4	5 - 20
Aluminum	7429-90-5	4
Zinc	7440-66-6	4

Composition comments

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures

Inhalation	If dust from the material is inhaled, remove the affected person immediately to fresh air. Call a physician if symptoms develop or persist.
Skin contact	Contact with dust: Wash off with soap and water. Get medical attention if irritation develops and persists. Cuts or abrasions should be treated promptly with thorough cleansing of the affected area.

Eye contact	Dust in the eyes: Do not rub eyes. Rinse with water. Remove contact lenses, if present and easy to do. Get medical attention if irritation develops and persists.
Ingestion	Not likely, due to the form of the product. Dust: Rinse mouth thoroughly. Do not induce vomiting without advice from poison control center. Get medical attention if symptoms occur.
Most important symptoms/effects, acute and delayed	Contact with dust: Irritation of eyes and mucous membranes. Irritation of nose and throat.
Indication of immediate medical attention and special treatment needed	Treat symptomatically.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
5. Fire-fighting measures	
Suitable extinguishing media	Special powder against metal fires. Dry sand. In case of aluminum fires, use a class D dry-powder extinguisher (Lith-X).
Unsuitable extinguishing media	Do not use halogenated extinguishing agents or foam.
Specific hazards arising from the chemical	Not a fire hazard unless in particle form. Suspensions of aluminum dust in air may pose a severe explosion hazard. A potential for explosion exists for a mixture of fine and coarse particles if at least 15% to 20% of the material is finer than 44 microns (325 mesh). Buffing and polishing generate finer material than grinding, sawing and cutting. Fire or high temperatures create: Metal oxides.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire-fighting equipment/instructions	Use standard firefighting procedures and consider the hazards of other involved materials.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Avoid generation and spreading of dust. Ensure adequate ventilation. Avoid inhalation of dust and contact with skin and eyes. Wear protective clothing as described in Section 8 of this safety data sheet.
Methods and materials for containment and cleaning up	The product is immiscible with water and will sediment in water systems. Allow spilled material to solidify and scrape up with shovels into a suitable container for recycle or disposal. Collect dust or particulates using a vacuum cleaner with a HEPA filter.
Environmental precautions	Not relevant, due to the form of the product.
7. Handling and storage	
Precautions for safe handling	Welding, burning, sawing, brazing, grinding or machining operations may generate fumes and dusts of metal oxides. Provide adequate ventilation. Avoid contact with sharp edges and hot surfaces. Avoid generation and spreading of dust. Avoid inhalation of dust and contact with skin and eyes. Avoid contact with molten material. Avoid inhalation of fumes from molten product. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.
Conditions for safe storage,	Store away from incompatible materials (See Section 10).

Conditions for safe storage, including any incompatibilities

8. Exposure controls/personal protection

Occupational exposure limits

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

Components	Туре	Value	Form
Aluminum (CAS 7429-90-5)	PEL	5 mg/m3	Respirable dust.
		15 mg/m3	Total dust.
US. ACGIH Threshold Limit Values			
Components	Туре	Value	Form
Aluminum (CAS 7429-90-5)	TWA	1 mg/m3	Respirable fraction.
Asphalt (CAS 8052-42-4)	TWA	0.5 mg/m3	Inhalable fraction.

Components	Туре	Value	Form
Asphalt (CAS 8052-42-4)	Ceiling	5 mg/m3	Fume.

US NIOSH Pocket Guide to Chemical Hazards: Recommended exposure limit (REL)

Components	Туре	Value	Form
Aluminum (CAS 7429-90-5)	TWA	5 mg/m3	Welding fume or pyrophoric powder.
		5 mg/m3	Respirable.
		10 mg/m3	Total
Biological limit values	No biological exposure limits noted for the i	ngredient(s).	
Appropriate engineering controls	Special ventilation should be used to conve sawing etc., in order to eliminate explosion minimize the risk of inhalation of dust.		
Individual protection measures,	such as personal protective equipment		
Eye/face protection	If contact is likely, safety glasses with side s or goggles, a welding helmet with appropria brazing. A face shield is recommended, in a grinding, or machining. Eye wash fountain i	ate shaded shield is requ addition to safety glasses	ired during welding, burning, or
Skin protection			
Hand protection	Wear suitable protective gloves to prevent or gloves to protect against thermal burns. Su supplier.		
Other	Wear suitable protective clothing.		
Respiratory protection	Use an approved respirator designed for the The use of both primary and secondary pro metal. Refer to "Aluminum Association" gui potential for exposure to dust exceeding ex protection standard). Seek advice from loca	tective equipment is nec delines. Use a NIOSH–a posure limits (See 29 CF	essary when handling molten pproved respirator if there is a
Thermal hazards	Wear appropriate thermal protective clothin	g, when necessary.	
General hygiene considerations	Always observe good personal hygiene me and before eating, drinking, and/or smoking equipment to remove contaminants.		

9. Physical and chemical properties

•	-
Appearance	
Physical state	Solid.
Form	Pipe. Plate. Sheets. Strips.
Color	Black.
Odor	Odorless.
Odor threshold	Not applicable.
рН	Not applicable.
Melting point/freezing point	200 °F (93.33 °C)
Initial boiling point and boiling range	Not applicable.
Flash point	Not applicable.
Evaporation rate	Not applicable.
Flammability (solid, gas)	Fine particles may form explosive mixtures with air.
Upper/lower flammability or expl	losive limits
Flammability limit - lower (%)	Not applicable.
Flammability limit - upper (%)	Not applicable.
Explosive limit - lower (%)	Not applicable.
Explosive limit - upper (%)	Not applicable.
Vapor pressure	Not applicable.
Vapor density	Not applicable.
Relative density	8
Solubility(ies)	Insoluble in water.
Partition coefficient (n-octanol/water)	Not applicable.

Auto-ignition temperature	905 °F (485 °C)
Decomposition temperature	Not applicable.
Viscosity	Not applicable.

10. Stability and reactivity

Reactivity	The product is stable and non reactive under normal conditions of use, storage and transport.
Chemical stability	Massive metal is stable under normal conditions of use, storage and transport.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Contact with acids. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents. Strong mineral acids.
Hazardous decomposition products	Welding, burning, sawing, brazing, grinding or machining operations may generate dusts and fumes of metal oxides.

11. Toxicological information

Information on likely routes of exposure

Ingestion	Not relevant, due to the form of the product in its manufactured and shipped state.
Inhalation	Dust and fumes generated from the material can enter the body by inhalation. Dust may irritate respiratory system. Inhalation of powder or fumes may cause metal fume fever.
Skin contact	Under normal conditions of intended use, this material does not pose a risk to health. Dust may irritate skin.
Eye contact	Dust may irritate the eyes.
Symptoms related to the physical, chemical and toxicological characteristics	Dust: Irritation of eyes and mucous membranes. Irritation of nose and throat.

Information on toxicological effects

Acute toxicity

Inhalation of powder or fumes may cause metal fume fever.

3	•	•		
Components	Species	Test Results		
Iron (CAS 7439-89-6)				
Acute				
Oral				
LD50	Rat	30 g/kg		
Skin corrosion/irritation	May cause irritation through me	chanical abrasion.		
Serious eye damage/eye irritation	May cause irritation through me	chanical abrasion.		
Respiratory sensitization	Not classified.			
Skin sensitization	Not a skin sensitizer.			
Germ cell mutagenicity	Based on available data, the cla	ssification criteria are not met.		
Carcinogenicity	Based on available data, the cla	ssification criteria are not met.		
IARC Monographs. Overall Evaluation of Carcinogenicity				
Asphalt (CAS 8052-42-4)	2B Possibly carcinogenic to humans. 3 Not classifiable as to carcinogenicity to humans.			
Reproductive toxicity	Based on available data, the classification criteria are not met.			
Specific target organ toxicity - single exposure	Based on available data, the cla	ssification criteria are not met.		
Specific target organ toxicity - repeated exposure	Based on available data, the cla	ssification criteria are not met.		
Aspiration hazard	Not classified.			
Chronic effects	Chronic inhalation of high conce pneumoconiosis (siderosis). Ma	entrations of iron oxide fumes or dust may lead to benign y cause damage to the liver.		
Further information	inhalation. The symptoms are sl generated during welding or me aluminum alloys can generate o	releases metallic oxides which may cause metal fume fever by nivering, fever, malaise and muscular pain. Aluminum fumes lting present low health risks. Welding or plasma arc cutting of zone, nitric oxides and ultraviolet radiation. Ozone overexposure e irritation or pulmonary discomfort.		

12. Ecological informatio	n			
Ecotoxicity		is not classified as environmentally hazard at large or frequent spills can have a harm	ous. However, this does not exclude the ful or damaging effect on the environment.	
Components		Species	Test Results	
Iron (CAS 7439-89-6)				
Aquatic	1.050	Channel actich (latelumus munstatus)		
Fish	LC50	Channel catfish (Ictalurus punctatus)	> 500 mg/l, 96 hours	
Zinc (CAS 7440-66-6) Aquatic				
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	0.24 mg/l, 96 hours	
Persistence and degradability	The product	is not biodegradable.		
Bioaccumulative potential	The product	The product is not bioaccumulating.		
Mobility in soil	No data avai	No data available.		
Mobility in general	No data avai	No data available.		
Other adverse effects	No data avai	lable.		
13. Disposal consideration	ons			
Disposal instructions	Dispose of w	aste and residues in accordance with loca	I authority requirements.	
Hazardous waste code	Not regulated	d.		
Waste from residues / unused products	Dispose of in	accordance with local regulations.		
Contaminated packaging	No special p	recautions.		
14. Transport information	ו			
DOT				
Not regulated as a hazardou	s material by DC	DT.		
IATA				
Not regulated as a dangerou IMDG	is good.			
Not regulated as a dangerou	is good.			
Transport in bulk according to	-			
Annex II of MARPOL 73/78 and the IBC Code				
15. Regulatory information	on			
US federal regulations				
TSCA Section 12(b) Export	t Notification (4	0 CFR 707, Subpt. D)		
	gulated Substar	nces (29 CFR 1910.1001-1050)		
Not listed. CERCLA Hazardous Subst	ance List (40 C	FR 302.4)		
Asphalt (CAS 8052-42-4	•	LISTED		
Zinc (CAS 7440-66-6)		LISTED		
Superfund Amendments and R				
Hazard categories	Immediate H Delayed Haz Fire Hazard Pressure Ha Reactivity Ha	ard - No - No zard - No		
SARA 302 Extremely hazardous substance	No			
SARA 311/312 Hazardous chemical	No			
Other federal regulations				
Clean Air Act (CAA) Sectio	on 112 Hazardo	us Air Pollutants (HAPs) List		
Not regulated. Clean Air Act (CAA) Sectio	on 112(r) Accide	ental Release Prevention (40 CFR 68.130))	
Not regulated				

Not regulated.

Clean Water Act (CWA) Section 112(r) (40 CFR 68.130)	Priority pollutant Toxic pollutant		
Safe Drinking Water Act (SDWA)	Not regulated.		
Food and Drug Administration (FDA)	Not regulated.		
US state regulations	WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.		
US. Massachusetts RTK	C - Substance List		
Aluminum (CAS 7429 Asphalt (CAS 8052-4 Zinc (CAS 7440-66-6	(2-4) ()		
US. New Jersey Worker	and Community Right-to-Know Act		
Aluminum (CAS 7429 Zinc (CAS 7440-66-6			
US. Pennsylvania RTK -			
Aluminum (CAS 7429 Asphalt (CAS 8052-4 Zinc (CAS 7440-66-6 US. Rhode Island RTK Aluminum (CAS 7429	-2-4))) 9-90-5)		
	Zinc (CAS 7440-66-6)		
US. California Proposition 6			
•	ion 65 - Carcinogens & Reproductive Toxicity (CRT): Listed subs	stance	
Asphalt (CAS 8052-4	2-4)		
International Inventories			
Country(s) or region	Inventory name	On inventory (yes/no)*	
Australia	Australian Inventory of Chemical Substances (AICS)	Yes Yes	
Canada	Domestic Substances List (DSL)		
Canada	Non-Domestic Substances List (NDSL)	No	
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes Yes	
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)		
Europe	European List of Notified Chemical Substances (ELINCS)	No	
Japan	Inventory of Existing and New Chemical Substances (ENCS)		
Korea	Existing Chemicals List (ECL)	Yes	
New Zealand	New Zealand Inventory	Yes	
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes	
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No	

Toxic Substances Control Act (TSCA) Inventory

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s). A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date	08-August-2013
Revision date	-
Version #	01
Further information	NFPA Ratings: Health: 0. Flammability: 0. Physical hazard: 0. Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe
NFPA Ratings	0 0

List of abbreviations

NFPA: National Fire Protection Association.

This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.