

1. Identification

Product identifier	CRS-1
Other means of identification	Not available.
Recommended use	Not available.
Recommended restrictions	None known.
Manufacturer/Importer/Suppl	ier/Distributor information
Manufacturer	
Manufacturer:	Ergon Asphalt & Emulsions, Inc.
Address:	P. O. Box 1639
	Jackson, MS 39215-1639
Website:	www.ergonasphalt.com
Telephone:	1-800-222-7122 (Customer Service)
E-mail:	sds@ergon.com
24 hour Emergency (CHEMTREC):	North America 1-800-424-9300; International 1-703-527-3887

2. Hazard(s) identification

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Physical hazards	Not classified.
Health hazards	Not classified.
Environmental hazards	Not classified.
OSHA defined hazards	Not classified.
Label elements	
Hazard symbol	None.
Signal word	None.
Hazard statement	The mixture does not meet the criteria for classification.
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)	None known.
Supplemental information	Vapors containing hydrogen sulfide may accumulate during storage or transport. HYDROGEN SULFIDE (H2S) can be harmful or fatal if inhaled.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
ASPHALT		8052-42-4	55 - 75
WATER		7732-18-5	30 - 50
HYDROCHLORIC ACID		7647-01-0	< 1
Composition comments	Components not listed are either non-hazardous	or below the required dis	sclosure threshold.
4. First-aid measures			
Inhalation	If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathin Call a physician if symptoms develop or persist.		
Skin contact	If clothing sticks to the skin, do not remove. Lotion or hand cream may aid in the removal of asphalt. Wash contact areas with soap and water. If needed, seek medical attention.		
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.		
Ingestion	Rinse mouth. DO NOT induce vomiting. Get med amount does occur, call a poison control center i		y. If ingestion of a

Most important symptoms/effects, acute and delayed	Direct contact with eyes may cause temporary irritation.
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	Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Water. Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Structural firefighters protective clothing will only provide limited protection.
Fire-fighting equipment/instructions	ALWAYS stay away from tanks engulfed in flame. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Move containers from fire area if you can do so without risk. In the event of fire, cool tanks with water spray.
Specific methods	In the event of fire and/or explosion do not breathe fumes. In the event of fire, cool tanks with water spray.

General fire hazards No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	This product is miscible in water. Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Prevent entry into waterways, sewer, basements or confined areas.
	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. Ventilate area and avoid breathing vapors or mist. For large spills, dike far ahead of liquid spill for later disposal. Do not release into sewers or waterways.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.
7. Handling and storage	
Precautions for safe handling	Avoid prolonged exposure. Use only in well-ventilated areas. Hydrogen sulfide, a very highly toxic gas, may be present with this material. Keep face clear of tank and/or tank car openings. Good

personal hygiene is necessary. Wash hands and contaminated areas with water and soap before
leaving the work site.Conditions for safe storage,
including any
incompatibilitiesPrevent electrostatic charge build-up by using common bonding and grounding techniques. Store in
original tightly closed container. Store in a well-ventilated place. Store away from incompatible
materials (see Section 10 of the SDS). Do not allow material to freeze.

8. Exposure controls/personal protection

Occupational exposure limits US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) Components Туре Value HYDROCHLORIC ACID (CAS Ceiling 7 mg/m3 7647-01-0) 5 ppm **US. ACGIH Threshold Limit Values** Form Components Value Туре ASPHALT (CAS 8052-42-4) TWA 0.5 mg/m3 Inhalable fraction.

US. ACGIH Threshold Limi Components	t Values Type	Value	Form
HYDROCHLORIC ACID (CAS 7647-01-0)	Ceiling	2 ppm	
US. NIOSH: Pocket Guide	to Chemical Hazards		
Components	Туре	Value	Form
ASPHALT (CAS 8052-42-4)	Ceiling	5 mg/m3	Fume.
HYDROCHLORIC ACID (CAS 7647-01-0)	Ceiling	7 mg/m3	
,		5 ppm	
Biological limit values	No biological exposure limits noted f	or the ingredient(s).	
Appropriate engineering controls	Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.		
Individual protection measure	s, such as personal protective equ	ipment	
Eye/face protection	Wear safety glasses; chemical goggl	es (if splashing is possible).	
Hand protection	Chemical resistant gloves are recomi gloves.	mended. If contact with forear	ms is likely wear gauntlet style
Other	Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapor contact. Plastic or rubber gloves, apron and boots.		
Respiratory protection	When workers are facing concentrat certified respirators.	ions above the exposure limit t	they must use appropriate
Thermal hazards	Wear appropriate thermal protective	clothing, when necessary.	
General hygiene considerations	Always observe good personal hygie before eating, drinking, and/or smok remove contaminants.		

9. Physical and chemical properties

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Appearance	Brown to black in color.
Physical state	Liquid.
Form	Liquid.
Color	Black
Odor	Tar-like
Odor threshold	Not available.
рН	2.1 - 4
Melting point/freezing point	150 - 180 °F (65.56 - 82.22 °C) / -173.6 °F (-114.22 °C) estimated
Initial boiling point and boiling range	212 °F (100 °C)
Flash point	400.0 °F (204.4 °C) Cleveland Open Cup
Evaporation rate	< 1
Flammability (solid, gas)	Not available.
Upper/lower flammability or e	xplosive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	< 1 mm Hg @ 70C
Vapor density	> 1
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	> 700 °F (> 371.11 °C)

Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Flammability class	Flammable IIIB
Percent volatile	< 2 %
Specific gravity	1.03

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Stable under normal temperature conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Avoid temperatures exceeding the flash point. Contact with incompatible materials. Do not overheat product.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Upon decomposition, this product may yield sulfur dioxide, carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons. Hydrogen sulfide.

11. Toxicological information

Information on likely routes of exposure

Ingestion	Expected to be a low ingestion hazard.
Inhalation	Prolonged inhalation may be harmful.
Skin contact	No adverse effects due to skin contact are expected.
Eye contact	Harmful in contact with eyes.
Symptoms related to the physical, chemical and toxicological characteristics	Direct contact with eyes may cause temporary irritation.

Information on toxicological effects

Acute toxicity

Product	Species	Test Results
CRS-1 (CAS Mixture)		
Acute		
Inhalation		
LC50	Mouse	79142.8594 ppm, 1 Hours estimated
Oral		
LD50	Mouse	2390 g/kg estimated
	Rabbit	64285.7148 mg/kg estimated
	Rat	2140 g/kg estimated
Components	Species	Test Results
HYDROCHLORIC ACID (CAS	7647-01-0)	
Acute		
Dermal		
LD50	Mouse	1449 mg/kg
Inhalation		
LC50	Mouse	1108 ppm, 1 Hours
	Rat	3124 ppm, 1 Hours
Oral		
LD50	Rabbit	900 mg/kg
Other		
LD50	Mouse	1449 mg/kg

* Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation.
Serious eye damage/eye irritation	Harmful in contact with eyes. None known.

Respiratory or skin sensitization	on	
Respiratory sensitization	Not available.	
Skin sensitization	May cause skin disorders if co	ntact is repeated or prolonged.
Germ cell mutagenicity	No data available to indicate p mutagenic or genotoxic.	roduct or any components present at greater than 0.1% are
Carcinogenicity		ded with prolonged exposure. IARC: occupational exposures to ir emissions during road paving are "possibly carcinogenic to
IARC Monographs. Overall	Evaluation of Carcinogenici	ty
ASPHALT (CAS 8052-42-4 HYDROCHLORIC ACID (C US. OSHA Specifically Reg Not listed.		2B Possibly carcinogenic to humans. 3 Not classifiable as to carcinogenicity to humans. 910.1001-1050)
Reproductive toxicity	Not classified.	
Specific target organ toxicity	Not classified.	
- single exposure	Not classificu.	
Specific target organ toxicity - repeated exposure	Not classified.	
Aspiration hazard	Not available.	
Chronic effects	Prolonged exposure may cause	e chronic effects.
Further information	This product has no known ad	verse effect on human health.

12. Ecological information

Ecotoxicity	Not expected to be harmful to aquatic organisms.
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Product		Species	Test Results
CRS-1 (CAS Mixture)			
Fish	LC50	Fish	2437.7026 mg/l, 96 hours estimated
Components		Species	Test Results
HYDROCHLORIC AC	ID (CAS 7647-01-0)		
Aquatic			
Fish	LC50	Western mosquitofish (G	ambusia affinis) 282 mg/l, 96 hours

* Estimates for product may be based on additional component data not shown.

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

Bioaccumulative potential	No data available.
Mobility in soil	No data 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 in accordance with all applicable regulations. No components are identified as hazardous wastes. Disposal recommendations are based on uncontaminated material.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company. Not applicable.
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). Avoid discharge into water courses or onto the ground.
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to
Annex II of MARPOL 73/78
and the IBC CodeNot available.Further informationIf shipped above 212 deg F: "UN3257, Elevated Temperature Liquid, n.o.s. (Asphalt mixture), 9, PG
III"

15. Regulatory information

US federal regulations All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated. CERCLA Hazardous Substance List (40 CFR 302.4)

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ASPHALT (CAS 8052-42-4)	Listed.
HYDROCHLORIC ACID (CAS 7647-01-0)	Listed.
US EPCRA Section 304 Extremely Haz. Subs. 8	& CERCLA Haz. Subs.: Section 304 EHS reportable quantity
HYDROCHLORIC ACID (CAS 7647-01-0)	5000 LBS

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Hazard categories

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

	Chemical name	CAS number	Reportable quantity	Threshold planning quantity	Threshold planning quantity, lower value	Threshold planning quantity, upper value
	HYDROCHLORIC ACID	7647-01-0	5000	500 lbs		
	SARA 311/312 Hazardous chemical	No				
	SARA 313 (TRI report Not regulated.	ing)				
Oth	er federal regulations					
	Clean Air Act (CAA) Se	ection 112 Hazar	dous Air Pollut	tants (HAPs) List		
	HYDROCHLORIC AC	ID (CAS 7647-01-0))			
	Clean Air Act (CAA) Se	ection 112(r) Acc	idental Releas	e Prevention (40 CF	R 68.130)	
	HYDROCHLORIC AC	ID (CAS 7647-01-0))			
	Safe Drinking Water A (SDWA)	Act Not regulat	ed.			
	Drug Enforcement	t Administration	(DEA). List 2,	Essential Chemicals	(21 CFR 1310.02(b)	and 1310.04(f)(2)
	HYDROCHLORI	C ACID (CAS 7647-	-01-0)			
	DEA Essential Che	emical Code Num	ber			
	HYDROCHLORI	C ACID (CAS 7647-	-01-0)	6545		
	-		. ,	& 2 Exempt Chemical	Mixtures (21 CFR 1	l310.12(c))
		C ACID (CAS 7647	,	20 %WV		
	DEA Exempt Chen					
	HYDROCHLORI	C ACID (CAS 7647	,	6545		
US	state regulations	WARNING:	This product cor	ntains a chemical know	n to the State of Califo	ornia to cause cancer.
	US. Massachusett	s RTK - Substand	ce List			
	ASPHALT (CAS	,				
		C ACID (CAS 7647				
	US. New Jersey W					
		C ACID (CAS 7647	,	500 LBS		
	US. Pennsylvania		5 Substances			
	ASPHALT (CAS	8052-42-4)				

HYDROCHLORIC ACID (CAS 7647-01-0)

US. Rhode Island RTK

HYDROCHLORIC ACID (CAS 7647-01-0)

US. California Proposition 65

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

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

ASPHALT (CAS 8052-42-4) Listed: January 1, 1990

International Inventories	International Invento	ries
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Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply 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	04-29-2015
Version #	01
Further information	HMIS® is a registered trade and service mark of the NPCA.
References	ACGIH EPA: AQUIRE database NLM: Hazardous Substances Data Base US. IARC Monographs on Occupational Exposures to Chemical Agents IARC Monographs. Overall Evaluation of Carcinogenicity National Toxicology Program (NTP) Report on Carcinogens ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices
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