

# MATERIAL SAFETY DATA SHEET

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## HMIS HAZARD RATING

HEALTH	1
FIRE	0
REACTIVITY	0
PERSONAL PROTECTION	X

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By: R. Lauterbach

## SECTION I: PRODUCT IDENTIFICATION

Product Name: **TECTYL® 351S**  
General or Generic ID: Asphalt Emulsion

## SECTION II: COMPOSITION / INFORMATION ON INGREDIENTS

<u>Ingredients</u>	<u>CAS #</u>	<u>PEL (OSHA)</u>	<u>AGGIH TL</u>	<u>% Volume</u>
Petroleum Asphalt	8052-42-4	5 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>	48-52
Proprietary Non-Hazardous Surfactant		None Established	None Established	<2
Clay, Bentonite*	1302-78-9	None respirable	None respirable	<8
Water	7731-18-5	None Listed	None Listed	46-52

\*Fillers are encapsulated and can not generate air borne dust during application.

## SECTION III: HAZARDS IDENTIFICATION

**Eye:** May cause mild eye irritation, tearing, and redness.

**Skin:** Can cause skin irritation. Symptoms may include redness and burning of skin, and other skin damage.

**Ingestion:** May cause nausea, vomiting.

**Chronic Effects:** Some asphalt solutions have produced skin cancer in laboratory animals. The activity of test materials varies widely, but the activity in general, is weak. Based on the skin painting data, IARC has concluded that there is sufficient evidence for carcinogenicity of asphalts, diluted, dissolved, or liquefied in solvents, in laboratory animals. Workers, therefore, who practice poor personal hygiene and who are repeatedly exposed by direct skin contact to petroleum asphalts over many years, may potentially be at risk of developing skin cancer. Intermittent or occasional skin contact with petroleum asphalts is not expected to have serious health effects as long as good personal hygiene measures, such as those outlined in this Material Safety Data Sheet, are followed.

In addition, asphalt vapors may contain polycyclic aromatic hydrocarbons, some of which are known to be carcinogenic. Therefore, prolonged breathing of vapors should be avoided.

Special Remarks: Some asphalts may contain hydrogen sulfide (CAS #7783-06-4) ACGIH TLV = 10ppm. Hydrogen Sulfide (HS) may accumulate in storage tanks and bulk transport compartments containing asphalts. Prolonged breathing of low levels of HS will produce eye/respiratory tract irritation; extremely high levels (1000 ppm) can cause unconsciousness/death.

**Carcinogenicity:** Asphalt solutions are considered to be animal carcinogens by IARC.

**Other Health Effects:** Avoid prolonged and repeated contact with skin.

#### SECTION IV: FIRST AID MEASURES

**Eye:** Flush with large amounts of water immediately. Eye lids should be held away from the eyeball to ensure thorough rinsing. Get medical attention if irritation persists.

**Skin:** Prolonged contact may cause slight irritation. Wash with soap and water. Get medical attention if irritation persists.

**Ingestion:** May cause nausea, vomiting, contact a physician immediately.

#### SECTION V: FIRE AND EXPLOSION HAZARD DATA

**Flash Point (Method Used):** NA (Water based)

**Flammable Explosion Limits:** NA

Fire extinguishing media: NA

Special Fire Hazards and Fire Fighting Procedures: NA

#### SECTION VI: ACCIDENTAL RELEASE MEASURES

Dike spill area, recover free liquid, and return to container. Add absorbent to spill area.

#### SECTION VII: HANDLING AND STORAGE

Avoid extremes of temperature in storage. Store in tightly closed containers in cool, dry, isolated and well-ventilated area. **Protect from freezing!**

#### SECTION VIII: EXPOSURE CONTROLS

**Skin:** Wear gloves to prevent irritations.

**Eyes:** Wear goggles to prevent irritations.

**Other:** Long sleeved shirt and pants preferred.

## SECTION IV: PROPERTIES

Appearance	Brown thixotropic gel
Odor	Mild or Faint Petroleum
Initial Boiling Point (° F)	200-220° F
Vapor Pressure (mm Hg)	760@ 212 °F
Vapor Density (Air = 1)	> 1
Solubility in Water	Dispersible
Specific Gravity (H <sub>2</sub> O = 1)	.95-1.05
Volatiles (wt %)	48-53
Evaporation (Ether = 1)	
Viscosity (Brookfield RVT)	5800 – 7800 cps. (TB @ 5 RPM) (Typical)
Auto Ignition Temperature	NA
pH	Not Applicable

## SECTION X: STABILITY / REACTIVITY DATA

Stable: Yes	Unstable: N/A
Conditions to Avoid	Open flame and fume inhalation
Incompatibility	Avoid strong oxidizers.
Hazardous Polymerization	Will not occur
Hazardous Decomposition Products	Carbon Monoxide, Carbon Dioxide

## SECTION XI: TOXICOLOGICAL INFORMATION

Acute Oral LD50	No Data Available
Acute Dermal LD50	No Data Available
Acute Inhalation LC 50	No Data Available
Carcinogenicity	No Data Available
Mutagenicity	No Data Available

## SECTION XII: ECOLOGICAL INFORMATION

None known.

## SECTION XIII: DISPOSAL CONSIDERATION

This substance, when discarded or disposed of, is not specifically listed as a hazardous waste in federal regulations; however it could be hazardous if it is considered toxic, corrosive, ignitable, or reactive according to federal definitions (40 CFR 261). Additionally, it could be designated as hazardous according to state regulations. This substance could also become a hazardous waste if it is mixed or comes in contact with a hazardous waste. If such contact or mixing may have occurred, check 40 CFR 261 to determine whether it is a hazardous waste. If it is considered hazardous, regulations 40 CFR 262, 263 and 264 apply. The transportation, storage, treatment, and disposal of this waste material must be conducted in compliance with all applicable federal, state, and local regulations.

## SECTION XIV: TRANSPORT INFORMATION

According to DOT regulations, this product is not considered hazardous. Care should be taken to protect from freezing.

**SECTION XV: REGULATORY INFORMATION**

There are no S.A.R.A. 313 ingredients in this material in excess of de minimus amounts. "Asphalt may contain detectable amounts of chemicals known to the State of California to cause cancer or reproductive harm."

INGREDIENT	CAS #	NOTES
Asphalt	8052-42-3	A Pennsylvania Hazardous Substance List Material
Asphalt	8052-42-3	A Washington State Permissible Exposure for Air Contaminants material
Asphalt	8052-42-3	Asphalt may contain detectable amounts of chemicals known by the state of California to cause cancer or reproductive harm.

**SECTION XVI: OTHER**

Although the information contained herein is believed to be reliable, it is furnished without warranty of any kind. This information is not intended to be all-inclusive as to the manner and conditions of use, handling, and storage.