

1. Product and Company Information

Material Name	PA-311 R Adhesive
Version #	01
Revision Date	02-15-2016
CAS #	Mixture
Supplier	Siplast
Address	1000 Rochelle Blvd. Irving, TX 75062
Contact Name	Todd Franks
E-Mail	ussds@icopal.com
Hours of Operation	8:00 AM – 5:00 PM US CST
General Assistance	800-922-8800
CHEMTREC	800.424.9300

2. Hazard(s) Identification

Physical Hazards	Flammable liquids	Category 3
Health Hazards	Not classified	
Environmental Hazards	Not classified	
OSHA defined hazards	Not Classified	

Label elements



Signal Word	Warning
Hazard statement	Flammable liquid and vapor

Prevention	Use explosion-proof electrical/ventilating/lighting equipment. Ground/bond container and receiving equipment. Keep away from heat/sparks/open flames/hot surfaces. No Smoking. Wear protective gloves/eye protection/face protection. Take precautionary measures against static discharge. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wash hands thoroughly after handling.
-------------------	---

Response	In case of fire: Use CO2 for extinction. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and possible. Continue rinsing. IF ON SKIN: Remove immediately all contaminated clothing. Rinse skin with water/shower.
-----------------	--

Storage	Store in well ventilated place. Keep cool. Store locked up.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazards not otherwise Classified (HNOC)	None known
Supplemental information	None

3. Composition / Information on Ingredients

Mixtures

Hazardous Components	CAS #	Percent
Asphalt	8052-42-4	40 – 70
Stoddard Solvent	8052-41-3	15 – 30
Solvent Naphtha, Light Aromatic	64742-95-6	5 – 25
Calcium Carbonate	471-34-1	15 – 30
Quartz	14808-60-7	< 1

4. First Aid Measures

Eye Contact	Immediately flush eyes with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical attention.
Skin Contact	Rinse skin with water/shower. Get medical attention if irritation develops or persists. For minor skin contact, avoid spreading material on unaffected skin.
Inhalation	Move to fresh air. Supply oxygen or artificial respiration if needed. No mouth-to-mouth method if substance was inhaled. Induce artificial respiration with the aid of a Pocket mask equipped with a one-way valve or other proper respiratory medical device. Call poison control center immediately if ingestion of a large amount occurs.
Notes to Physician	In case of shortness of breath, give oxygen. Keep victim warm and under evaluation. Symptoms may be delayed.
General advice	If exposed or concerned: seek medical advice/attention. In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Ensure that medical personnel are aware of the materials involved and take precautions to protect themselves.

5. Fire Fighting Measures

Suitable extinguishing media	Foam. Dry powder. Carbon dioxide (CO ₂). Extinguish with water fog.
Unsuitable extinguishing media	Do not use water jet as an extinguishing media, as this will spread the fire.
Specific hazards arising from the chemical	Fire may produce irritating, corrosive and/or toxic gases.
Protective equipment and precautions for firefighters	Firefighters must use standard protective equipment including flame retardant coat, helmet w/protective face shield, gloves, rubber boots, and SCBA in enclosed spaces
Firefighting equipment/Instructions	In case of fire and/or explosions do not breathe fumes. Fight fire from maximum distance or use unmanned hose holders. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tanks due to fire. Move containers from fire area if you can do so without risk. Do not get water inside container. For massive fire in cargo area, use unmanned hose holder if possible. If not, withdraw and let fire burn out.
Specific methods	In the event of fire, cool tanks with water spray. SCBA and full protective clothing must be worn in case of fire.

6. Accidental Release Measures

Personal precautions Protective equipment and procedures	Remove sources of ignition. Keep away unnecessary personnel. Keep people away from and upwind of spill. Ventilate closed spaces before entry. Do not touch emergency damaged containers or spilled material unless wearing appropriate protective clothing.
Methods for containment	Eliminate all ignition sources. Prevent entry into waterways, sewers, basements or confined areas.
Methods for clean-up	Dike far ahead of spill for later disposal. Cover with DRY earth, sand or non-combustible material followed w/ plastic sheet to minimize contact with rain. Never return spills to original containers for re-use.
Environmental precautions	Prevent further spillage or leakage if safe to do so. Do not contaminate water.

7. Handling and Storage

Precautions for safe handling	DO NOT handle, store or open near open flame, sources of heat or ignition. Protect material from direct sunlight. All equipment used when handling the product must be grounded. Wear personal protective equipment. Avoid contact with skin. Do not get material in contact with eyes. Use only in well-ventilated areas. Avoid prolonged exposure. Wash thoroughly after handling.
Conditions for safe storage,	The pressure in sealed containers can increase when exposed to heat. Keep away from heat, sparks and open flame. Keep away from sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Protect electrostatic charge build-up by using common bonding and grounding techniques. Store in a well-ventilated area. Keep container tightly closed. Handle and store with care.



8. Exposure Controls / Personal Protection

Occupational exposure limits

US. ACGIH Threshold Limit Values

Components	Type	Value	Form
Asphalt (8052-42-4)	TWA	0.5 mg/m ³	Inhalable fraction
Stoddard Solvent (8052-41-3)	TWA	100 ppm	
Solvent Naphtha (64742-95-6)	TWA	19 ppm	
Quartz (14808-60-7)	TWA	0.025 mg/m ³	Respirable fraction

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

Components	Type	Value	Form
Calcium Carbonate (471-34-1)	PEL	5 mg/m ³	Respirable fraction
		15 mg/m ³	Total dust
Stoddard Solvent (8052-41-3)	PEL	2900 mg/m ³	
		500 ppm	
Solvent Naphtha (64742-95-6)	PEL	100 mg/m ³	

US. OSHA Table Z-3 (29 CFR 1910.1000)

Components	Type	Value	Form
Quartz (14808-60-7)	TWA	0.3 mg/m ³	Total dust
		0.1 mg/m ³	Respirable
		2.4 mppcf	Respirable

Engineering Controls

Good general ventilation (typically 10 air changes/hr.) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Personal protective equipment

Eye / face protection

Do not get in eyes. Protective goggles are recommended.

Skin protection

Wear appropriate chemical resistant clothing and gloves.

Respiratory protection

Wear certified respirator when concentrations are above recommended levels

General considerations

Do not smoke when using. Do not get in eyes. Avoid contact with skin. Keep away from food and drink. Handle in accordance with good hygiene and safety practice.

9. Physical & Chemical Properties

Appearance	Black, viscous liquid
Physical state	Liquid
Odor	Slight, hydrocarbon
Odor threshold	Not available
pH	Not available
Vapor pressure	Not available
Vapor density	> 1 estimated
Boiling point	212°F (100°C)
Melting/Freezing point	Not available
Solubility (water)	Insoluble
Specific Gravity	1.07 – 1.2
Flash Point	105°F, minimum (40.6°C) COC Method
Flammability limits in air, Upper, % by volume	Not available
Flammability limits in air, Lower, % by volume	Not available
Auto-ignition temperature	Not available
Percent volatile	20% – 30%
Other data	
Density	9.0 – 10.0 lbs/gal
Flammability class	Flammable II

10. Chemical Stability & Reactivity Information

Reactivity	Not available
Chemical stability	Stable under normal temperature conditions
Conditions to avoid	Heat, flames and sparks
Incompatible materials	Strong oxidizing agents
Hazardous decomposition products	Irritants. Toxic gas
Possibility of hazardous reactions	Hazardous polymerization will not occur

11. Toxicological Information

Information on likely routes of exposure

Ingestion	May cause discomfort if swallowed. However, ingestion is not a likely route of occupational exposure.
Inhalation	May cause irritation to the respiratory system. However, this product does not currently meet the criteria for classification as a respiratory nuisance.
Skin contact	Frequent or prolonged contact may defat and dry the skin, leading to discomfort & dermatitis.
Eye contact	Causes eye irritation.

Information on toxicological effects

Acute toxicity	Not classified
-----------------------	----------------

Product	Test Results
Encore RR2 Adhesive (mixture)	Acute Oral LD50 Mouse: 30714.2852 mg/kg estimated Acute Oral LD50 Rat: 30714.2852 mg/kg estimated

Components	Test Results
Calcium Carbonate (471-34-1)	Acute Oral LD50 Mouse: 6450 mg/kg Acute Oral LD50 Rat: 6450 mg/kg

Local effects Components of the product may be absorbed into the body through the skin. Contact may irritate or burn eyes.

Chronic effects Hazardous by OSHA criteria. Prolonged inhalation may be harmful. Repeated absorption may cause disorder of central nervous system, liver, kidneys and blood. Prolonged exposure may cause chronic effects.

Sub chronic effects Kidney injury may occur.

Carcinogenicity Hazardous by OSH criteria. This product contains crystalline silica. Silica is a known carcinogen; however in this encapsulated form the normal routes of exposure are unavailable

ACGIH Carcinogens

Asphalt (8052-42-4)	A4 Not classifiable as a human carcinogen.
Quartz (14808-60-7)	A2 Suspected human carcinogen.

IARC Monographs. Overall Evaluation of Carcinogenicity

Asphalt (8052-42-4)	2B Possibly carcinogenic to humans.
Quartz (14808-60-7)	3 Not classifiable as to carcinogenicity to humans.
Stoddard Solvent (8052-41-3)	1 Carcinogenic to humans.
	3 Not classifiable as to carcinogenicity to humans.

US NTP Report on Carcinogens: Known carcinogen

Quartz (14808-60-7)	Known to be Human Carcinogen
---------------------	------------------------------

Epidemiology	Hazardous by OSHA criteria.
Neurological effects	Hazardous by OSHA criteria.
Further Information	Symptoms may be delayed.



12. Ecological Information

Ecotoxicological data

Components

Calcium Carbonate (471-34-1)

Test Results

LC50 Western mosquitofish: > 56000mg/l 96 hours

Persistence and degradability

Not available

13. Disposal Considerations

Waste Codes

D001: Waste Flammable material with a flash point < 140°F

Disposal instructions

Dispose of this material and its container to a hazardous or special waste collection point. If discarded, this product is considered a RCRA ignitable waste, D001. Dispose in accordance with all applicable regulations.

14. Transport Information

DOT

Basic shipping requirements:

UN Number	UN1999
Proper shipping name	Tars, liquid
Hazard class	Combustible liquid
Packing group	III
Environmental hazards	
Marine pollutant	No

Additional information:

Special provisions	B1, B13, IB3, T1, TP3
Packaging exceptions	150
Packaging non bulk	203
Packaging bulk	242
ERG number	130

Further information

If shipped by ground in quantities LESS than 119 gallons, material is not regulated as a hazardous material. When shipped in quantities GREATER than 119 gallon, container must bear DOT CLASS 3 COMBUSTIBLE label.

IATA

UN number	UN1999
UN proper shipping name	Tars, liquid
Transport hazard class(es)	
Class	3
Subsidiary risk	-
Packing group	III
Environmental hazards	No
ERG Code	3L
Special precautions for user	Not available
Other information	
Passenger and cargo aircraft	Allowed
Cargo aircraft only	Allowed

IMDG

UN number	UN 1999
UN proper shipping name	Tars, liquid
Transport hazard class(es)	
Class	3
Subsidiary risk	-



Packing group	III
Environmental hazards	
Marine pollutant	No
EmS	F-E, S-E
Special precautions for user	Not available
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not available

DOT Labeling (On packaging containing > 119 US gallons)

15. Regulatory Information

US Federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard 29 CFR 1910.1200
CERCLA/SARA Hazardous Substances – Not applicable.

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04 (f)(2))

Not regulated

DEA Essential Chemical Code Number

Not regulated

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12 (c))

Not regulated

DEA Exempt Chemical Mixtures Code Number

Not Regulated

CERCLA (Superfund) reportable quantity

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard – Yes

Delayed Hazard – Yes

Fire Hazard – Yes

Pressure Hazard – No

Reactivity Hazard – No

Section 302 extremely Hazardous substance

No

Section 311 hazardous Chemical

No

Inventory Status

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	No
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)	No
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)	Yes
USA & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

*A "Yes" indicates that all components of this product comply with inventory requirements administered by the governing country(s)



State regulations 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 (8052-42-4) Listed: January 1, 1990 Carcinogenic
Quartz (14808-60-7) Listed: October 1, 1988 Carcinogenic

US – New Jersey RTK – Substances: Listed substance

Asphalt (8052-42-4) Listed
Calcium Carbonate (471-34-1) Listed
Quartz (14808-60-7) Listed
Stoddard Solvent (8052-41-3) Listed

US – Pennsylvania RTK – Hazardous Substances: Listed substance

Asphalt (8052-42-4) Listed
Calcium Carbonate (471-34-1) Listed
Quartz (14808-60-7) Listed
Stoddard Solvent (8052-41-3) Listed

US – Pennsylvania RTK – Hazardous Substances: Special Hazard

Asphalt (8052-42-4) Special Hazard

16. Other Information

Further Information HMIS® is a registered trade and service mark of the NPCA

HMIS® ratings Health: 1*
Flammability: 2
Physical Hazard: 0

NFPA ratings Health: 1
Flammability: 2
Instability: 0

Disclaimer The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of this publication. The information given is designed only as a guidance for safe use, handling, processing, storage, transport, disposal and release and is not to be considered a warranty or quality specification. The information related only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Revision Date February 15, 2016

Version # 01