

7/1/20

SAFETY DATA SHEET

According to Regulation (EC) No 1907/2006 (REACH)

1. PRODUCT IDENTIFICATION

Trade Name(s): PrimeTak Primer Product Description: Liquid adhesive

Synonyms: N/A CAS No: N/A

Supplier:

EPRO Services, Inc. PO Box 347 Derby, KS 67037

800-882-1896 (8:00am - 5:00pm CST)

2. HAZARD(S) IDENTIFICATION

OSHA/HCS status: This material is considered hazardous by the OSHA Hazard Communication Standard (49CFR1910.1200).

Classification of the substance or mixture

Flammable liquid-Category 2

Skin Corrosion/Irritation-Category 2

Toxic to reproductive (Fertility)-Category 2

Toxic to reproduction (unborn child)-Category 2

Specific target organ toxicity (single exposure) (Narcotic effects)-Category 3

Specific target organ toxicity (repeated exposure)-Category 2

Aspiration hazard-Category 1

Aquatic toxicity (Chronic)-Category 2

GHS label elements

Hazard pictogram









Signal word: Danger

Hazard statements

Highly flammable liquid and vapor. Causes skin irritation. Suspected of damaging fertility or the unborn child. May be fatal if swallowed and enters airways. May cause drowsiness and dizziness. May cause damage to organs through prolonged or repeated exposure. Toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Wear protective gloves. Wear eye or face protection. Keep away from heat, sparks, open flames, and hot surfaces. No smoking. Use explosion-proof electrical, ventilating, lighting, and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep container tightly closed. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Do not breathe vapor. Wash hands thoroughly after handling.

Response: Collect spillage. Get medical attention if you feel unwell. IF exposed or concerned: Get medical attention. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. IF ON SKIN: Wash with plenty of soap and water.

Take off contaminated clothing. If skin irritation occurs: Get medical attention.

Storage: Store locked up. Store in a well-ventilated place. Keep cool.

Disposal: Dispose of contents and container in accordance with all local, regional, national, and international

regulations.

Hazards not otherwise classified: None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture: Mixture

Other means of identification: Not available

CAS number/other identifiers
CAS number: Not applicable
Product code: Not available

Ingredient name	%	CAS number
Toluene	30 - 60	108-88-3
n-Hexane	30 - 60	110-54-3

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

There are no additional ingredients present which, with 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.

4. FIRST-AID MEASURES

Description of necessary first aid measures

Eye contact: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 20 minutes. Get medical attention.

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway.

Skin contact: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 20 minutes. Get medical attention.

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. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact: Causes serious eye irritation.

Inhalation: Can cause central nervous system (CNS) depression. May cause drowsiness and dizziness.

Skin contact: Causes skin irritation.

Ingestion: Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways.

Irritating to mouth, throat, and stomach.

Over-exposure signs/symptoms

Eye contact: Adverse symptoms may include pain or irritation, watering, or redness.

Inhalation: Adverse symptoms may include nausea or vomiting, headache, drowsiness/fatigue,

dizziness/vertigo, unconsciousness, reduced fetal weight, increase in fetal deaths, or skeletal malformations.

Skin contact: Adverse symptoms may include irritation, redness, reduced fetal weight, increase in fetal deaths, or skeletal malformations.

Ingestion: Adverse symptoms may include nausea or vomiting, reduced fetal weight, increase in fetal deaths, or skeletal malformations.

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. If it is suspected that fumes are still present the rescuer should wear an appropriate mask of self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media: Use dry chemical, CO2, water spray (fog) or foam.

Unsuitable extinguishing media: Do not use water jet or water-based fire extinguishers.

Specific hazards arising from the chemical: Highly flammable liquid and vapor. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back.

Hazardous thermal decomposition products: Decomposition products may include carbon dioxide and carbon monoxide.

Special protective actions for firefighters: Move containers from fire area if it can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for firefighters: Firefighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures

For non-emergency personnel: Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders: If specialized 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

Spill: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements, or confined areas. Contain and collect spillage with non- combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Protective measures: Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not swallow. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame, or any other ignition source. Use explosion-proof electrical (ventilating, lighting, and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene: 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 a segregated and approved area. 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. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. 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.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Toluene	NIOSH REL (United States, 6/2009).
	STEL: 560 mg/m ³ 15 minutes.
	STEL: 150 ppm 15 minutes.
	TWA: 375 mg/m ³ 10 hours.
	TWA: 100 ppm 10 hours.
	OSHA PEL Z2 (United States, 11/2006).
	AMP: 500 ppm 10 minutes.
	CEIL: 300 ppm
	TWA: 200 ppm 8 hours.
	ACGIH TLV (United States, 3/2012).
	TWA: 20 ppm 8 hours.
n-Hexane	ACGIH TLV (United States, 3/2012). Absorbed through skin.
II-HEXAIIE	TWA: 50 ppm 8 hours.
	NIOSH REL (United States, 6/2009).
	TWA: 180 mg/m³ 10 hours.
	TWA: 50 ppm 10 hours.
	OSHA PEL (United States, 6/2010).
	TWA: 1800 mg/m ³ 8 hours.
	TWA: 500 ppm 8 hours.

Appropriate engineering controls: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor, or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Environmental exposure controls: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

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. Ensure that eyewash stations and safety showers are close to the workstationlocation.

Eye/face protection: Safety eyewear complying with an approved standard should be used 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: chemical splash goggles.

Hand protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products 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. When there is a risk of ignition from static electricity, wear anti- static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots, and gloves.

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, air-purifying or supplied air 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid

Odor: Hydrocarbon (strong) pH: Not available

Boiling point: 67°C (152.6°F) **Burning time:** Not applicable

Evaporation rate: 4.5 (ether (anhydrous) = 1 **Lower explosive (flammable) limit:** 1.2%

Vapor pressure: 20.3 kPA (152mm Hg) room temp

Relative density: 0.9

Auto-ignition temperature: Not available

SADT: Not available

VOC: 527 g/L

Color: red

Odor threshold: Not available Melting point: Not available

Flash point: Closed cup - -19.4°C (-2.9°F) (Tagliabue)

Burning rate: Not applicable

Flammability (solid, gas): Not available Upper explosive (flammable) limit: 7.5%

Vapor density: 3.5 (Air = 1)

Partition coefficient n-octanol/water: Not available

Decomposition temperature: Not available

Viscosity: Not available

Solubility: Partially soluble in cold & hot water

10. STABILITY AND REACTIVITY

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

Chemical stability: Product is stable.

Possibility of hazardous reactions: Under normal conditions of storage and use hazardous reactions will not

occur.

Conditions to avoid: Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.

Incompatible materials: Reactive or incompatible with oxidizing materials, acids, and alkalis.

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

products should not be produced.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effect

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Toluene	LC50 Inhalation Vapor	Rat	49 g/m³	4 hours
	LD50 Oral	Rat	636 mg/kg	-
n-Hexane	LC50 Inhalation Gas.	Rat	48000 ppm	4 hours
	LD50 Oral	Rat	15840 mg/kg	-

Irritation/corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Toluene	Eyes - Mild irritant	Rabbit	-	0.5 minutes 100	-
	1			mg	
	Skin - Moderate irritant	Rabbit	-	24 hours 20 mg	-
	Eyes - Mild irritant	Rabbit	-	870 μg	-
	Eyes - Severe irritant	Rabbit	-	24 hours 2 mg	-
	Skin - Mild irritant	Pig	-	24 hours 250 μL	-
	Skin - Mild irritant	Rabbit	-	435 mg	-
	Skin - Moderate irritant	Rabbit	-	500 mg	-
n-Hexane	Eyes - Mild irritant	Rabbit	-	10 mg	-

Sensitization

Skin: No data available

Respiratory: No data available

Mutagenicity: No data available

Carcinogenicity Classification

Product/ingredient name	OSHA	IARC	NTP
Toluene	-	3	-

Reproductive toxicity: No data available **Teratogenicity:** No data available

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Toluene	Category 3	Not applicable.	Narcotic effects
n-Hexane	Category 3	Not applicable.	Narcotic effects

Specific target organ toxicity (repeated exposure)

- Proceedings					
Name	Category	Route of exposure	Target organs		
Toluene	Category 2	Not determined	Not determined		
n-Hexane	Category 2	Not determined	Not determined		

Aspiration hazard

Name	Result
Toluene	Aspiration Hazard - Category 1
n-Hexane	Aspiration Hazard - Category 1

Information on Likely routes of exposure: Routes of entry anticipated: Oral, Dermal, Inhalation

Potential acute health effects

Eye contact: Causes serious eye irritation.

Inhalation: Can cause central nervous system (CNS) depression. May cause drowsiness and dizziness.

Skin contact: Causes skin irritation.

Ingestion: Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways.

Irritating to mount, throat, and stomach.

Symptoms related to the physical, chemical, and toxicological characteristics

Eye contact: Adverse symptoms may include pain or irritation, watering, redness.

Inhalation: Adverse symptoms may include nausea or vomiting, headache, drowsiness/fatigue,

dizziness/vertigo, unconsciousness, reduced fetal weight, increase in fetal deaths, or skeletal malformations.

Skin contact: Adverse symptoms may include irritation, redness, reduced fetal weight, increase in fetal deaths, or skeletal malformations.

Ingestion: Adverse symptoms may include nausea or vomiting, reduced fetal weight, increase in fetal deaths, or skeletal malformations.

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

Short term exposure

Potential immediate effects: No known significant effect or critical hazards. **Potential delayed effects:** No known significant effect or critical hazards.

Long term exposure

Potential immediate effects: No known significant effect or critical hazards. **Potential delayed effects:** No known significant effect or critical hazards.

Potential chronic health effects

General: May cause damage to organs through prolonged or repeated exposure.

Carcinogenicity: No known significant effects or critical hazards. **Mutagenicity:** No known significant effects or critical hazards.

Teratogenicity: Suspected of damaging the unborn child.

Development effects: No known significant effects or critical hazards.

Fertility effects: Suspected of damaging fertility.

Target organs: Contains material which may cause damage to the following organs: kidneys, nervous system, reproductive system, liver, peripheral nervous system, upper respiratory tract, skin, central nervous system

(CNS), eye, lens, or cornea.

Numerical measures of toxicity

Acute toxicity estimates: No data available

12. ECOLOGICAL INFORMATION (non-mandatory)

Toxicity

Product/ingredient	Result	Species	Exposure
Toluene Acute EC50 433 ppm Marine water		Algae - Skeletonema costatum	96 hours
	Acute EC50 12500 µg/L Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
Acute EC50 11600 µg/L Fresh water		Crustaceans - Gammarus pseudolimnaeus -	48 hours
		Adult	
	Acute EC50 6000 μg/L Fresh water	Daphnia - Daphnia magna -Juvenile	48 hours
		(Fledgling, Hatchling, Weanling)	
	Acute LC50 5500 µg/L Fresh water	Fish - Oncorhynchus kisutch - Fry	96 hours
	Chronic NOEC 500000 µg/L Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Chronic NOEC 1000 µg/L Fresh water	Daphnia - Daphnia magna	21 days
n-Hexane	Acute LC50 113000 μg/L Fresh water	Fish - Oreochromis mossambicus	96 hours

Persistence and degradability: No data available

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Toluene	2.69	8.317637711	low
n-Hexane	3.9		low

Mobility in soil

Soil/water partition coefficient (Koc): No data available

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

13. DISPOSAL CONSIDERATIONS (non-mandatory)

Disposal methods: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental 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. Care should be taken when handling empty containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

United States – RCTA Toxic hazardous waste "U" List

Toluene CAS #: 108-88-3 Listed Reference #: U220

14. TRANSPORT INFORMATION (non-mandatory)

	DOT Classification	IMDG	IATA
UN number	UN1139	UN1139	UN1139
UN proper shipping name	COATING SOLUTION RQ(Toluene, n-Hexanes)	COATING SOLUTION. Marine pollutant (n-Hexane)	COATING SOLUTION
Transport hazard class(es)	3	3	3
Packing group	II	II	II
Environmental hazards	Yes.	Yes.	No.
Additional information	Reportable quantity 2999.4 lbs / 1361.7 kg [399.7 gal / 1513 L] Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.	Emergency schedules (EmS) F-E, S-E	-

Special precautions for user: Transport within user's premises: Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the even of an accident or spillage.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not available

15. REGULATORY INFORMATION (non-mandatory)

US Federal regulations

TSCA 8(a) CDR Exempt/Partial exemption: Not determined US inventory (TSCA 8b): All components are listed or exempted

Clean Water Act (CWA) 307: Toluene Clean Water Act (CWA) 311: Toluene

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs): Listed

Clean Air Act Section 602 Class 1 Substances: Not listed Clean Air Act Section 602 Class II Substances: Not listed DEA List I Chemicals (Precursor Chemicals): Listed

SARA 302/304: No products were found

SARA 304 RQ: Not applicable

SARA 311/312 Classification: Fire hazard. Immediate (acute) health hazard. Delayed (chronic) health hazard.

Composition/information on ingredients

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
Toluene	30 - 60	Yes.	No.	No.	Yes.	Yes.
n-Hexane	30 - 60	Yes.	No.	No.	Yes.	Yes.

SARA 313

	Product name	CAS number	%
Form R - Reporting requirements	10.000	108-88-3 110-54-3	30 - 60 30 - 60
Supplier notification		108-88-3 110-54-3	30 - 60 30 - 60

SARA 313 notifications must not be detached from 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: Toluene;n-Hexane New York: The following components are listed: Toluene;n-Hexane New Jersey: The following components are listed: Toluene; n-Hexane Pennsylvania: The following components are listed: Toluene; n-Hexane

California Prop. 65

WARNING: This product contains a chemical known to the State of California to cause birth defects or other

reproductive harm.

Ingredient name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
Toluene	No.	Yes.		7000 μg/day (ingestion) 13000 μg/day (inhalation)

International regulations

Australia inventory (AICS): Notdetermined. China inventory (IECSC): Not determined.

Japan inventory: Not determined. Korea inventory: Not determined.

Malaysia Inventory (EHS Register): Not determined.

New Zealand Inventory of Chemicals (NZIoC): Not determined.

Philippines inventory (PICCS): Not determined. Taiwan inventory (CSNN): Not determined.

Chemical Weapons Convention List Schedule I Chemicals: Not listed. Chemical Weapons Convention List Schedule II Chemicals: Not listed. Chemical Weapons Convention List Schedule III Chemicals: Not listed.

16. OTHER INFORMATION

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