

SAFETY DATA SHEET

Rain-X Wiper Blade Coating

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Printed: 07/29/2015
Revision: 07/29/2015
Supersedes Revision: 06/03/2014

1. Product and Company Identification

Product Code: RX WIPER BLADE
Product Name: Rain-X Wiper Blade Coating
Company Name: Fas-Pak
401 Darlington St
La Porte, IN 46350
Phone Number: (219)325-3455
Web site address: <http://www.fas-pak.com>
Information: EH&S Manager (219)325-3455 243
Product Category: Automotive Specialty Products
Intended Use: Wiper Blade Coating

2. Hazards Identification

Flammable Liquids, Category 3
Acute Toxicity: Inhalation, Category 4
Skin Corrosion/Irritation, Category 2
Acute Toxicity: Skin, Category 4
Serious Eye Damage/Eye Irritation, Category 2A



Warning



Warning

GHS Hazard Phrases: H226: Flammable liquid and vapor.
H312: Harmful in contact with skin.
H315: Causes skin irritation.
H319: Causes serious eye irritation.
H332: Harmful if inhaled.

GHS Precaution Phrases: P210: Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P233: Keep container tightly closed.
P240: Ground/bond container and receiving equipment.
P241: Use explosion-proof electrical/ventilating/lighting equipment.
P242: Use only non-sparking tools.
P243: Take precautionary measures against static discharge.
P261: Avoid breathing dust/fume/gas/mist/vapors/spray.
P264: Wash hands thoroughly after handling.
P271: Use only outdoors or in a well-ventilated area.
P280: Wear protective gloves/protective clothing/eye protection/face protection.

GHS Response Phrases: P302+352: IF ON SKIN: Wash with plenty of soap and water.
P303+361+353: IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312: Call a POISON CENTER or doctor/physician if you feel unwell.
P321: Specific treatment included in this SDS.
P322: Specific measures included in this SDS.
P332+313: If skin irritation occurs, get medical advice/attention.
P337+313: If eye irritation persists, get medical advice/attention.
P362: Take off contaminated clothing and wash before re-use.

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GHS Storage and Disposal Phrases:	P363: Wash contaminated clothing before reuse. P370+378: In case of fire, use approved materials to extinguish. P403+235: Store in cool/well-ventilated place. P501: Dispose of contents/container to approved locations in compliance with all applicable regulations.
OSHA Regulatory Status:	This material is classified as hazardous under OSHA regulations.
Potential Health Effects (Acute and Chronic):	Causes serious eye irritation. Harmful if inhaled. Harmful in contact with skin. Causes skin irritation. Irritating to mouth, throat and stomach.
Inhalation:	Contact with mist or spray may cause irritation of mucous membranes, coughing and difficulty in breathing. High vapor concentration may cause dizziness and drowsiness.
Skin Contact:	Skin contact can cause irritation, especially under the finger nails (and other confined spaces such as under rings or watch bands). May cause defatting, drying and cracking of the skin. Prolonged and repeated contact may lead to dermatitis. May be partially absorbed through intact skin.
Eye Contact:	Splashes to the eye may cause irritation, redness and pain. Vapors from this product are irritating to the eyes. Product residues on fingers, hands or gloves may contact the eyes and cause eye irritation, redness and pain.
Ingestion:	This product causes irritation, a burning sensation of the mouth and throat and abdominal pain.
Medical Conditions Generally Aggravated By Exposure:	Medical conditions that may be aggravated by exposure to this product include neurological and cardiovascular disorders, diseases of the skin, eyes or respiratory tract, preexisting liver and kidney disorders.

3. Composition/Information on Ingredients

CAS #	Hazardous Components (Chemical Name)	Concentration
63148-62-9	Polydimethylsiloxane	10.0 -70.0 %
1330-20-7	Xylene (mixed isomers)	5.0 -50.0 %
7782-42-5	Graphite	5.0 -40.0 %

4. First Aid Measures

Emergency and First Aid Procedures:

In Case of Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that 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. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
In Case of Skin Contact:	Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 15 minutes. Get medical attention. If necessary, call a poison center or physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.
In Case of Eye Contact:	Immediately flush eyes with plenty of water for 15 minutes, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. If persistent irritation occurs, obtain medical attention.

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In Case of Ingestion:	Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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 adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Signs and Symptoms Of Exposure:	Effects (irritancy) on the skin and eyes may be delayed, and damage may occur without the sensation or onset of pain. Strict adherence to first aid measures following any exposure is essential. May cause hearing loss, pulmonary oedema, cardiac arrhythmia, liver damage, kidney damage and central nervous system (CNS) depression. Aromatic hydrocarbons pose potential human health risks which may vary from person to person. Solvent abusers exposed to high doses of aromatic solvents show signs of hearing loss as well as damage to the brain, liver and kidney. (3) Liver damage is characterized by the loss of appetite, jaundice (yellowish skin colour), and occasional pain in the upper left-hand side of the abdomen. Signs and symptoms of kidney damage generally progress from oliguria, to blood in the urine, to total renal failure. CNS depression is characterized by headache, dizziness, drowsiness, nausea, vomiting and incoordination. Severe overexposures may lead to coma and possible death due to respiratory failure. Xylene may sensitize heart muscle causing cardiac arrhythmia, in rare cases.
Note to Physician:	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

5. Fire Fighting Measures

Flash Pt:	Class IA Flammable Liquid 70.00 F (21.1 C) Method Used: Pensky-Marten Closed Cup
Explosive Limits:	LEL: 0.8% UEL: 6.7%
Autoignition Pt:	No data.
Suitable Extinguishing Media:	For small fires, Class B fire extinguishing media such as CO ₂ , dry chemical, foam (AFFF/ATC) or water spray can be used. For large fires, water spray, fog or foam (AFFF/ATC) can be used. Fire fighting should be attempted only by those who are adequately trained and equipped with proper protective equipment.
Unsuitable Extinguishing Media:	Do not use a solid stream of water as this may spread the fire.
Fire Fighting Instructions:	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Avoid using straight water streams. Water spray and foam (AFFF/ATC) must be applied carefully to avoid frothing and from as far a distance as possible. Avoid excessive water spray application. Keep surrounding area cool with water spray from a distance and prevent further ignition of combustible material. Keep run-off water out of sewers and water sources.
Flammable Properties and Hazards:	Flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. 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. Runoff to sewer may create fire or explosion hazard.
Hazardous Combustion Products:	Combustion produces carbon monoxide and carbon dioxide.

Flammability Classification:

6. Accidental Release Measures

Protective Precautions, Protective Equipment and Emergency Procedures: Use only with adequate ventilation. See Section 8 (Exposure/PPE) for more recommended protective gear. Chemical splash goggles, chemical-resistant gloves, and an apron are recommended. Use approved organic vapor chemical cartridge or supplied air respirators when material produces vapors that exceed permissible limits or excessive vapors are generated.

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).

Steps To Be Taken In Case Material Is Released Or Spilled: Stop leak if without risk. Eliminate all ignition sources. Move containers from spill area. Absorb with an inert material and place in an appropriate waste disposal container. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor.

7. Handling and Storage

Precautions To Be Taken in Handling: Use only under chemical fume hood. Wear personal protective equipment. Do not get in eyes, on skin or on clothing. Keep away from open flames, hot surfaces and sources of ignition. Use only non-sparking tools and explosion-proof equipment. Take precaution measures against static discharges. Isolate from sources of heat, sparks, and open flame. Open container in a well ventilated area. Avoid breathing vapors and thermal decomposition products. Keep containers closed when not in use. Vapors are heavier than air and will tend to accumulate in low areas. Avoid use in confined areas without adequate ventilation. Areas of inadequate ventilation could contain concentrations high enough to cause eye irritation, headaches, respiratory discomfort or nausea. Carefully evaluate processes using this product at elevated temperatures to ensure safe operating conditions. Electrostatic buildup may occur when pouring or transferring this product from its container.

Precautions To Be Taken in Storing: 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. 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.

Other Precautions: Do not discharge into drains or the environment, dispose to an authorized waste collection point. Use appropriate containment to avoid environmental contamination. Dispose of packaging or containers in accordance with local, regional, national and international regulations.

8. Exposure Controls/Personal Protection

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
63148-62-9	Polydimethylsiloxane	No data.	No data.	No data.
1330-20-7	Xylene (mixed isomers)	PEL: 100 ppm	TLV: 100 ppm STEL: 150 ppm	No data.
7782-42-5	Graphite	PEL: 532.5 ppm/15 mppcf	No data.	No data.

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Respiratory Equipment (Specify Type):	Use approved organic vapor chemical cartridge or supplied air respirators when material produces vapors that exceed permissible limits or excessive vapors are generated. Observe respirator assigned protection factors (APFs) criteria cited in federal OSHA 1910.134. Self-contained breathing apparatus should be used for fire fighting.
Eye Protection:	Wear appropriate protective eyeglasses or chemical safety goggles as described in OSHA's regulations 29 CFR 1910.133. Chemical splash goggles (chemical monogoggles).
Protective Gloves:	Wear gloves that cannot be penetrated by chemicals or oil. Neoprene, nitrile, polyvinyl alcohol (PVA), polyvinyl chloride and polyurethane gloves may prevent skin contact. The correct choice of protective gloves depends upon the chemicals being handled, the conditions of work and use, and the condition of the gloves (even the best chemically resistant glove will break down after repeated chemical exposures).
Other Protective Clothing:	No special protective clothing is normally required. Select protective clothing depending on industrial operations.
Engineering Controls (Ventilation etc.):	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 or vapor concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
Work/Hygienic/Maintenance Practices:	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. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Environmental Exposure Controls:	Local or general exhaust required when using at elevated temperatures that generate vapors or mists.

9. Physical and Chemical Properties

Physical States:	[] Gas [X] Liquid [] Solid
Appearance and Odor:	Black liquid with a mild aromatic hydrocarbon odor.
pH:	No data.
Melting Point:	No data.
Boiling Point:	279.00 F (137.2 C)
Flash Pt:	70.00 F (21.1 C) Method Used: Pensky-Marten Closed Cup
Evaporation Rate:	No data.
Flammability (solid, gas):	No data available.
Explosive Limits:	LEL: 0.8% UEL: 6.7%
Vapor Pressure (vs. Air or mm Hg):	No data.
Vapor Density (vs. Air = 1):	No data.
Specific Gravity (Water = 1):	1.05 - 1.08 at 77.0 F (25.0 C)
Density:	8.80 - 8.95 LBS/GAL at 77.0 F (25.0 C)
Solubility in Water:	Negligible
Octanol/Water Partition Coefficient:	No data.
Autoignition Pt:	No data.
Decomposition Temperature:	No data.
Viscosity:	126 - 146 CPS at 77.0 F (25.0 C)

10. Stability and Reactivity

Reactivity:	Under normal conditions of storage and use, hazardous reactions are not expected to occur.
Stability:	Unstable [<input type="checkbox"/>] Stable [<input checked="" type="checkbox"/>]
Conditions To Avoid - Instability:	Keep away from heat, sparks and flame. Avoid all possible sources of ignition (spark or flame).
Incompatibility - Materials To Avoid:	Reactive or incompatible with the following materials: oxidizing materials, acids and alkalis, halogenated compounds.
Hazardous Decomposition or Byproducts:	Combustion produces carbon monoxide and carbon dioxide.
Possibility of Hazardous Reactions:	Will occur [<input type="checkbox"/>] Will not occur [<input checked="" type="checkbox"/>]
Conditions To Avoid - Hazardous Reactions:	Under normal conditions of storage and use, hazardous polymerization is not expected to occur.

11. Toxicological Information

Toxicological Information:	<p>XYLENE: Dermal absorption of xylene in animals causes narcosis. Toxic effects described in animals by inhalation include upper respiratory irritation; central nervous system effects; behavioral effects; decreased weight gain; hearing loss; and effects on the blood, liver, kidneys, heart, spleen, lungs and bone marrow. By ingestion, xylene caused central nervous system effects; decreased body weight and liver effects. Tests of xylene in animals demonstrate no carcinogenic activity.</p> <p>Xylene does not produce heritable genetic damage in animals or genetic damage in bacterial or mammalian cell cultures. Although abnormal sperm were observed after an interperitoneal injection in rats, xylene did not produce reproductive effects. Developmental toxicity was observed in animals exposed to xylene but only at concentrations that were maternally toxic.</p> <p>CAS# 63148-62-9: Acute toxicity, LD50, Oral, Rat, > 24.00 GM/KG. Result: Gastrointestinal:Hypermotility, diarrhea. - National Technical Information Service, Vol/p/yr: LMF-69,</p> <p>CAS# 1330-20-7: Acute toxicity, LD50, Oral, Rat, 4300. MG/KG. Result: Liver: Other changes. Kidney, Ureter, Bladder:Other changes. - AMA Archives of Industrial Health., For publisher information, see AEHLAU, Chicago, IL, Vol/p/yr: 14,387, 1956</p>
Irritation or Corrosion:	<p>Eye Irritation: Causes serious eye irritation.</p> <p>Skin Irritation: Prolonged or repeated skin contact as from clothing wet with material may cause dermatitis. Symptoms may include redness, edema, drying, and cracking of the skin. Occasional skin contact with this product is not expected to have serious effects, but good personal hygiene should be practiced and repeated skin contact avoided. This product can also be expected to produce skin irritation upon prolonged or repeated skin contact. Personal hygiene measures taken to prevent skin irritation are expected to be adequate to prevent risk of skin cancer.</p>

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Symptoms related to Toxicological Characteristics:	Respiratory Irritation: Nose, throat and lung irritant. Based on data from similar materials. Exposure to a high concentration of vapor or mist may cause severe irritation to the nose and upper respiratory tract. Breathing of vapor or mist may aggravate asthma and inflammatory or fibrotic pulmonary disease. High exposures can cause drowsiness and dizziness. Central nervous system: repeated exposure affects the nervous system. Effects were seen at high doses only.
Carcinogenicity/Other Information:	Xylene has been classified by the Internal Agency for Research of Cancer (IARC) as not classifiable to its carcinogenicity to humans (Group 3) This IARC classification was based on inadequate evidence for the carcinogenicity of petroleum solvents in humans and in experimental animals.
Carcinogenicity:	NTP? No IARC Monographs? No OSHA Regulated? No

12. Ecological Information

General Ecological Information:	Ecotoxicological data have not been determined specifically for this product. CAS# 63148-62-9: LC50, Water Flea (Daphnia magna), instar, 44500. UG/L, 48 H, Mortality, pH: 7.90; Toxicity of Polydimethylsiloxanes in Certain Environmental Systems, Hobbs, E.J., M.L. Keplinger, and J.C. Calandra, 1975 CAS# 1330-20-7: LC50, Water Flea (Daphnia magna), 100000. - 1000000. UG/L, 24 H, Mortality, Water temperature: 21.00 C (69.8 F) - 25.00 C (77.0 F) C. Result: Abnormal development. - Toxicity of Selected Chemicals to Certain Animals, Dowden, B.F., and H.J. Bennett, 1965 LC50, Brine Shrimp (Artemia salina), 1830. UMOL/L, 24 H, Mortality. Result: Age Effects. - Comparative Acute Toxicity of the First 50 Multicentre Evaluation of In Vitro Cytotoxicity Chemicals to Aquatic Non-vertebrates, Calleja, M.C., G. Persoone, and P. Geladi, 1994
Results of PBT and vPvB assessment:	No testing has been performed by the manufacturer.
Persistence and Degradability:	No testing has been performed by the manufacturer.
Bioaccumulative Potential:	No testing has been performed by the manufacturer.
Mobility in Soil:	No testing has been performed by the manufacturer.

13. Disposal Considerations

Waste Disposal Method:	The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times 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 emptied containers that have not been
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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.

Waste Disposal Method: U239

14. Transport Information

GHS Classification: Flammable Liquids, Category 3 - Warning! Flammable liquid and vapor
 Acute Toxicity: Inhalation, Category 4 - Warning! Harmful if inhaled
 Skin Corrosion/Irritation, Category 2 - Warning! Causes skin irritation
 Acute Toxicity: Skin, Category 4 - Warning! Harmful in contact with skin
 Serious Eye Damage/Eye Irritation, Category 2A - Warning! Causes serious eye irritation

LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Xylenes, n.o.s.
DOT Hazard Class: 3 FLAMMABLE LIQUID
UN/NA Number: 1307 **Packing Group:** II



LAND TRANSPORT (Canadian TDG):

TDG Shipping Name: Xylenes, n.o.s.

LAND TRANSPORT (European ADR/RID):

ADR/RID Shipping Name: Xylenes, n.o.s.
UN Number: 1307 **Packing Group:** II
Hazard Class: 3 - FLAMMABLE LIQUID

MARINE TRANSPORT (IMDG/IMO):

IMDG/IMO Shipping Name: Xylenes, n.o.s.
UN Number: 1307 **Packing Group:** II
Hazard Class: 3 - FLAMMABLE LIQUID
IMDG EMS Page: **IMDG MFAG Number:**
Marine Pollutant: Yes

AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name: Xylenes, n.o.s.

15. Regulatory Information

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
63148-62-9	Polydimethylsiloxane	No	No	No
1330-20-7	Xylene (mixed isomers)	No	Yes 100 LB	Yes
7782-42-5	Graphite	No	No	No

This material meets the EPA Yes No Acute (immediate) Health Hazard
'Hazard Categories' defined Yes No Chronic (delayed) Health Hazard
for SARA Title III Sections Yes No Fire Hazard
311/312 as indicated: Yes No Sudden Release of Pressure Hazard
 Yes No Reactive Hazard

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16. Other Information

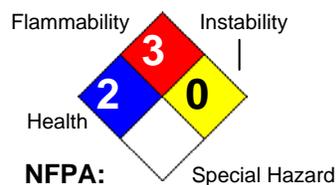
Revision Date: 07/29/2015

Preparer Name: CRR

Hazard Rating System:

HEALTH		2
FLAMMABILITY		3
PHYSICAL		0
PPE		H

HMIS:



Additional Information About This Product: No data available.

This Product:

Company Policy or

Disclaimer:

The information contained herein is based on our current knowledge of the underlying data and is intended to describe the product for the purpose of health, safety and environmental requirements only. No warranty or guarantee is expressed or implied regarding the accuracy of these data or the results to be obtained from the use of the product.