

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 05.21.2018

Page 1 of 12

IMI - OTR Tire Sealant (OTR Tire Sealant)

SECTION 1: Identification

Product identifier

Product name: IMI - OTR Tire Sealant (OTR Tire Sealant)

Product code: IMI - OTR Tire Sealant (OTR Tire Sealant)

Recommended use of the product and restriction on use

Relevant identified uses: Not determined or not applicable.

Uses advised against: Not determined or not applicable.

Reasons why uses advised against: Not determined or not applicable.

Manufacturer or supplier details

Manufacturer:

United States

IMI

3183 Black Gap Road

Chambersburg, PA. 17202

1-800-233-7086

info@imiproducts.com

Emergency telephone number:

Infotrac

1-800-535-5053 North America

1-352-323-3500 International

SECTION 2: Hazard(s) identification

GHS classification:

Eye irritation, category 2A

Skin irritation, category 2

Skin sensitization, category 1

Respiratory sensitization, category 1

Specific target organ toxicity - repeated exposure, category 1

Reproductive toxicity, category 2

Label elements

Hazard pictograms:



Signal word: Danger

Hazard statements:

H319 Causes serious eye irritation.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H372 Causes damage to organs through prolonged or repeated exposure.

H361 Suspected of damaging fertility or the unborn child.

Precautionary statements:

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 05.21.2018

Page 2 of 12

IMI - OTR Tire Sealant (OTR Tire Sealant)

- P264 Wash skin and eyes thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
P272 Contaminated work clothing should not be allowed out of the workplace.
P284 Wear respiratory protection.
P285 In case of inadequate ventilation wear respiratory protection.
P260 Do not breathe dust/fume/gas/mist/vapors/spray.
P270 Do not eat, drink or smoke when using this product.
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P281 Use personal protective equipment as required.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists get medical advice/attention
P321 Specific treatment (see supplemental first aid instructions on this label).
P362 Take off contaminated clothing and wash before reuse
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P332+P313 If skin irritation occurs: Get medical advice/attention
P363 Wash contaminated clothing before reuse
P333+P313 If skin irritation or a rash occurs: Get medical advice/attention
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P304+P341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
P314 Get medical advice/attention if you feel unwell
P308+P313 If exposed or concerned: Get medical advice/attention
P405 Store locked up.
P501 Dispose of contents and container as instructed in Section 13.

Hazards not otherwise classified: None

SECTION 3: Composition/information on ingredients

Identification	Name	Weight %
CAS number: 67-56-1	Methanol	<0.1
CAS number: 14808-60-7	Quartz	<0.1
CAS number: 1333-86-4	Carbon Black	<2
CAS number: 111-30-8	Glutaraldehyde	<0.2
CAS number: 2492-26-4	Sodium mercaptobenzothiazole	<0.2
CAS number: 10101-89-0	Sodium phosphate tribasic dodecahydrate	<2
CAS number: 12179-04-3	Borax pentahydrate	<0.5

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 05.21.2018

Page 3 of 12

IMI - OTR Tire Sealant (OTR Tire Sealant)

Additional Information:

Carbon black and Crystalline Quartz are only suspected human carcinogens as a respirable solid. Because this product is in a liquid state, and remains in a liquid state even after application, solid particles of carbon black and crystalline quartz are not expected to become respirable during normal conditions of use or exposure, and therefore the product itself does not warrant classification as a carcinogen. Note that care should be taken to maintain the product in a liquid state at all times, by avoiding direct heat, sunlight, etc., as well as any activities that may liberate respirable solids from the applied surface, such as cutting and sanding.

SECTION 4: First aid measures

Description of first aid measures

General notes:

Not determined or not applicable.

After inhalation:

Loosen clothing as necessary and position individual in a comfortable position

Maintain an unobstructed airway

Get medical advice/attention if you feel unwell

After skin contact:

Rinse affected area with soap and water

If symptoms develop or persist, seek medical attention

Take off all contaminated clothing

Gently blot or brush away excess product

Wash with plenty of lukewarm, gently flowing water

Get medical advice if skin irritation occurs or you feel unwell

After eye contact:

Rinse/flush exposed eye(s) gently using water for 15-20 minutes

If symptoms develop or persist, seek medical attention

Rinse eyes cautiously with lukewarm, gently flowing water for several minutes, while holding the eyelids open

Remove contact lenses, if present and easy to do so

Continue rinsing for 15-20 minutes

Get medical advice if eye irritation persists

After swallowing:

Rinse mouth thoroughly

Seek medical attention if irritation, discomfort, or vomiting persists

Most important symptoms and effects, both acute and delayed

Acute symptoms and effects:

Not determined or not applicable.

Delayed symptoms and effects:

Not determined or not applicable.

Immediate medical attention and special treatment

Specific treatment:

Not determined or not applicable.

Notes for the doctor:

Not determined or not applicable.

SECTION 5: Firefighting measures

Extinguishing media

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 05.21.2018

Page 4 of 12

IMI - OTR Tire Sealant (OTR Tire Sealant)

Suitable extinguishing media:

Use appropriate fire suppression agents for adjacent combustible materials or sources of ignition

Unsuitable extinguishing media:

Not determined or not applicable.

Specific hazards during fire-fighting:

Thermal decomposition can lead to release of irritating gases and vapors

Special protective equipment for firefighters:

Use typical firefighting equipment, self-contained breathing apparatus, special tightly sealed suit

Special precautions:

Not determined or not applicable.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation

Ensure air handling systems are operational

Wear protective eye wear, gloves and clothing

Environmental precautions:

Should not be released into the environment

Prevent from reaching drains, sewer or waterway

Methods and material for containment and cleaning up:

Wear protective eye wear, gloves and clothing

Absorb with non-combustible liquid-binding material (sand, diatomaceous earth (clay), acid binders, universal binders)

Dispose of contents / container in accordance with local regulations

Reference to other sections:

Not determined or not applicable.

SECTION 7: Handling and storage

Precautions for safe handling:

Use only with adequate ventilation.

Avoid breathing mist or vapor.

Do not eat, drink, smoke or use personal products when handling chemical substances.

Conditions for safe storage, including any incompatibilities:

Keep container tightly sealed.

Protect from freezing and physical damage.

Store in a cool, well-ventilated area.

SECTION 8: Exposure controls/personal protection

Only those substances with limit values have been included below.

Occupational Exposure limit values:

Country (Legal Basis)	Substance	Identifier	Permissible concentration
NIOSH	Borax pentahydrate	12179-04-3	NIOSH REL TWA 1.0 mg/m ³
	Glutaraldehyde	111-30-8	NIOSH REL C 0.2 ppm
	Glutaraldehyde	111-30-8	NIOSH REL C 0.8 mg/m ³
	Quartz	14808-60-7	NIOSH TWA 0.05 mg/m ³

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 05.21.2018

Page 5 of 12

IMI - OTR Tire Sealant (OTR Tire Sealant)

Country (Legal Basis)	Substance	Identifier	Permissible concentration
	Carbon Black	1333-86-4	NIOSH REL TWA 0.1 mg PAHs/m ³ [Carbon black in presence of polycyclic aromatic hydrocarbons (PAHs)]
	Carbon Black	1333-86-4	NIOSH REL TWA 3.5 mg/m ³ Ca
	Methanol	67-56-1	NIOSH REL TWA 200 ppm [skin]
	Methanol	67-56-1	NIOSH REL TWA 260 mg/m ³ [skin]
	Methanol	67-56-1	NIOSH REL ST 250 ppm [skin]
	Methanol	67-56-1	NIOSH REL ST 325 mg/m ³ [skin]
United States (OSHA)	Quartz	14808-60-7	OSHA Z-3 TWA 0.1 mg/m ³ (Respirable fraction); 0.3 mg/m ³ (Total dust)
	Methanol	67-56-1	OSHA PEL TWA 200 ppm
	Carbon Black	1333-86-4	OSHA PEL TWA 3.5 mg/m ³
	Methanol	67-56-1	OSHA PEL TWA 260 mg/m ³
	Borax pentahydrate	12179-04-3	TWA: 10 mg/m ³
	Glutaraldehyde	111-30-8	Z-1-A Ceiling concentration: 0.2 ppm
ACGIH	Glutaraldehyde	111-30-8	ACGIH TLV Ceiling 0.05 ppm
	Borax pentahydrate	12179-04-3	ACGIH TLV TWA 2.0 mg/m ³ (inhalable fraction)
	Quartz	14808-60-7	ACGIH TLV TWA 0.025 mg/m ³ (Respirable fraction)
	Methanol	67-56-1	ACGIH TLV STEL 250 ppm [skin]
	Borax pentahydrate	12179-04-3	ACGIH TLV STEL 6.0 mg/m ³ (inhalable fraction)
	Methanol	67-56-1	ACGIH TLV TWA 200 ppm [skin]
	Carbon Black	1333-86-4	TLV-TWA 3.0 mg/m ³
WEEL	Sodium phosphate tribasic dodecahydrate	10101-89-0	STEL (15 min.): 5 mg/m ³

Biological limit values:

No biological exposure limits noted for the ingredient(s).

Information on monitoring procedures:

Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls.

Biological monitoring may also be appropriate for some substances.

Appropriate engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling.

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above.

Personal protection equipment

Eye and face protection:

Safety goggles or glasses, or appropriate eye protection.

Skin and body protection:

Select glove material impermeable and resistant to the substance.

Wear appropriate clothing to prevent any possibility of skin contact.

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 05.21.2018

Page 6 of 12

IMI - OTR Tire Sealant (OTR Tire Sealant)

Respiratory protection:

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

General hygienic measures:

Avoid contact with skin, eyes and clothing.
Wash hands before breaks and at the end of work.
Wash contaminated clothing before reuse.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Viscous, blue liquid
Odor	Faint polyol
Odor threshold	Not determined or not available.
pH	10 - 11
Melting point/freezing point	12 °F
Initial boiling point/range	Not determined or not available.
Flash point (closed cup)	> 300 °F (149 °C) - Open cup
Evaporation rate	Not determined or not available.
Flammability (solid, gas)	Not determined or not available.
Upper flammability/explosive limit	Not determined or not available.
Lower flammability/explosive limit	Not determined or not available.
Vapor pressure	Not determined or not available.
Vapor density	Not determined or not available.
Density	Not determined or not available.
Relative density	1.04 - 1.06
Solubilities	Soluble in water.
Partition coefficient (n-octanol/water)	Not determined or not available.
Auto/Self-ignition temperature	Not determined or not available.
Decomposition temperature	Not determined or not available.
Dynamic viscosity	3500 - 5000 cps
Kinematic viscosity	Not determined or not available.
Explosive properties	Not determined or not available.
Oxidizing properties	Not determined or not available.

Other information

SECTION 10: Stability and reactivity

Reactivity:

Does not react under normal conditions of use and storage.

Chemical stability:

Stable under normal conditions of use and storage.

Possibility of hazardous reactions:

None under normal conditions of use and storage.

Conditions to avoid:

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 05.21.2018

Page 7 of 12

IMI - OTR Tire Sealant (OTR Tire Sealant)

None known.

Incompatible materials:

None known.

Hazardous decomposition products:

None known.

SECTION 11: Toxicological information

Acute toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data:

Name	Route	Result
Glutaraldehyde	oral	LD50 - Guinea pig - 50 mg/kg
	inhalation	LC50 - Rat - 117 mg/kg
Methanol	oral	LD50 - Rat - 5630 mg/kg
	dermal	LD50 - Rabbit - 15800 mg/kg
	inhalation	LC50 - Rat - 83.9 mg/l - 4h

Skin corrosion/irritation

Assessment: Causes skin irritation

Product data:

No data available.

Substance data:

Name	Result
Glutaraldehyde	Causes severe skin burns and eye damage.
Sodium mercaptobenzothiazole	Causes severe skin burns and eye damage.
Sodium phosphate tribasic dodecahydrate	Causes skin irritation.

Serious eye damage/irritation

Assessment: Causes serious eye irritation

Product data:

No data available.

Substance data:

Name	Result
Glutaraldehyde	Causes serious eye damage.
Sodium mercaptobenzothiazole	Causes serious eye damage.
Sodium phosphate tribasic dodecahydrate	Causes serious eye irritation.

Respiratory or skin sensitization

Assessment: May cause an allergic skin reaction May cause allergy or asthma symptoms or breathing difficulties if inhaled

Product data:

No data available.

Substance data:

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 05.21.2018

Page 8 of 12

IMI - OTR Tire Sealant (OTR Tire Sealant)

Name	Result
Glutaraldehyde	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
	May cause an allergic skin reaction.
Sodium mercaptobenzothiazole	May cause an allergic skin reaction.

Carcinogenicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data:

Name	Species	Result
Quartz	Not applicable.	Component may cause cancer.
Carbon Black	Not applicable.	The IARC carcinogenic classification and California Proposition 65 Warning only apply to airborne, unbound particles of respirable size of Carbon Black.

International Agency for Research on Cancer (IARC):

Name	Classification
Quartz	Group 1 - Carcinogenic to humans
Carbon Black	Group 2B - Possibly carcinogenic to humans

National Toxicology Program (NTP):

Name	Classification
Quartz	Known to be human carcinogens

Germ cell mutagenicity

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data: No data available.

Reproductive toxicity

Assessment: Suspected of damaging fertility or the unborn child

Product data:

No data available.

Substance data:

Name	Result
Borax pentahydrate	May damage fertility or the unborn child.

Specific target organ toxicity (single exposure)

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data:

Name	Result
Glutaraldehyde	May cause respiratory irritation to organs through single exposure
Methanol	Causes damage to the optic nerve and central nervous system.

Specific target organ toxicity (repeated exposure)

Assessment: Causes damage to organs through prolonged or repeated exposure

Product data:

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 05.21.2018

Page 9 of 12

IMI - OTR Tire Sealant (OTR Tire Sealant)

No data available.

Substance data:

Name	Result
Quartz	Component affects the lungs through repeated exposure.

Aspiration toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data: No data available.

Information on likely routes of exposure:

No data available.

Symptoms related to the physical, chemical and toxicological characteristics:

No data available.

Other information:

No data available.

SECTION 12: Ecological information

Acute (short-term) toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data:

Name	Result
Glutaraldehyde	EC50 - Green algae - 0.375 mg/L - 72 h
	LC50 - Oncorhynchus mykiss - 0.8 mg/L - 96 h
Methanol	LC50 - Fish - 15,000 - 29400 mg/l - 96 h
	LC50 - Crustaceans - 2500 - 481000 mg/l - 48 h

Chronic (long-term) toxicity

Product data: No data available.

Substance data:

Name	Result
Glutaraldehyde	NOEC - Desmodemus subspicatus - 0.05 mg/L - 72 h

Persistence and degradability

Product data: No data available.

Substance data: No data available.

Bioaccumulative potential

Product data: No data available.

Substance data: No data available.

Mobility in soil

Product data: No data available.

Substance data: No data available.

Other adverse effects: No data available.

SECTION 13: Disposal considerations

Disposal methods:

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 05.21.2018

Page 10 of 12

IMI - OTR Tire Sealant (OTR Tire Sealant)

SECTION 14: Transport information

United States Transportation of dangerous goods (49 CFR DOT)

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

International Maritime Dangerous Goods (IMDG)

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Bulk Name	None
Ship type	None
Pollution category	None

SECTION 15: Regulatory information

United States regulations

Inventory listing (TSCA):

12179-04-3	Borax pentahydrate	Not Listed
111-30-8	Glutaraldehyde	Listed
67-56-1	Methanol	Listed
14808-60-7	Quartz	Listed
2492-26-4	Sodium mercaptobenzothiazole	Listed
1333-86-4	Carbon Black	Listed
10101-89-0	Sodium phosphate tribasic dodecahydrate	Not Listed

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 05.21.2018

Page 11 of 12

IMI - OTR Tire Sealant (OTR Tire Sealant)

Significant New Use Rule (TSCA Section 5): Not determined.

Export notification under TSCA Section 12(b): Not determined.

SARA Section 302 extremely hazardous substances: Not determined.

SARA Section 313 toxic chemicals:

67-56-1	Methanol	Listed
111-30-8	Glutaraldehyde	Not Listed
14808-60-7	Quartz	Not Listed
2492-26-4	Sodium mercaptobenzothiazole	Not Listed
1333-86-4	Carbon Black	Not Listed
10101-89-0	Sodium phosphate tribasic dodecahydrate	Not Listed

CERCLA:

10101-89-0	Sodium phosphate tribasic dodecahydrate	Listed	5,000
67-56-1	Methanol	Listed	5000

RCRA:

67-56-1	Methanol	Listed	U154
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Section 112(r) of the Clean Air Act (CAA):

67-56-1	Methanol	Listed
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Massachusetts Right to Know:

12179-04-3	Borax pentahydrate	Not Listed
111-30-8	Glutaraldehyde	Listed
67-56-1	Methanol	Listed
14808-60-7	Quartz	Listed
2492-26-4	Sodium mercaptobenzothiazole	Not Listed
1333-86-4	Carbon Black	Listed
10101-89-0	Sodium phosphate tribasic dodecahydrate	Listed

New Jersey Right to Know:

1333-86-4	Carbon Black	Listed
67-56-1	Methanol	Listed
12179-04-3	Borax pentahydrate	Not Listed
111-30-8	Glutaraldehyde	Listed
14808-60-7	Quartz	Listed
2492-26-4	Sodium mercaptobenzothiazole	Not Listed
10101-89-0	Sodium phosphate tribasic dodecahydrate	Listed

New York Right to Know:

1333-86-4	Carbon Black	Not Listed
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Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 05.21.2018

Page 12 of 12

IMI - OTR Tire Sealant (OTR Tire Sealant)

12179-04-3	Borax pentahydrate	Not Listed
111-30-8	Glutaraldehyde	Listed
67-56-1	Methanol	Listed
14808-60-7	Quartz	Not Listed
2492-26-4	Sodium mercaptobenzothiazole	Not Listed
10101-89-0	Sodium phosphate tribasic dodecahydrate	Listed

Pennsylvania Right to Know:

1333-86-4	Carbon Black	Listed
67-56-1	Methanol	Listed
12179-04-3	Borax pentahydrate	Not Listed
111-30-8	Glutaraldehyde	Listed
14808-60-7	Quartz	Listed
2492-26-4	Sodium mercaptobenzothiazole	Not Listed
10101-89-0	Sodium phosphate tribasic dodecahydrate	Listed

California Proposition 65: WARNING: This Product contains chemicals and/or sub-components that may cause cancer, or reproductive harm per California Prop 65 - www.P65Warnings.ca.gov

SECTION 16: Other information

Abbreviations and Acronyms: None

Disclaimer:

This product has been classified in accordance with OSHA HCS 2012 guidelines. The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is designed only as a guidance for safe handling, use, storage, transportation and disposal and is not to be considered 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 materials, unless specified in the text. The responsibility to provide a safe workplace remains with the user.

NFPA: 2-0-0

HMIS: 2-0-0

Initial preparation date: 05.21.2018

End of Safety Data Sheet