

SAFETY DATA SHEET

1. Identification

Material name: ONESEAL ROOF SEALER BLACK 6/CASE
Material: 66370002 213

Recommended use and restriction on use

Recommended use: Sealant
Restrictions on use: Not known.

Manufacturer/Importer/Supplier/Distributor Information

Tremco U.S. Roofing
3735 Green Road
Beachwood OH 44122
US

Contact person: EH&S Department
Telephone: 216-292-5000
Emergency telephone number: 1-800-424-9300 (US); 1-613-996-6666 (Canada)

2. Hazard(s) identification

Hazard Classification

Physical Hazards

Flammable aerosol Category 1

Health Hazards

Serious Eye Damage/Eye Irritation Category 2A

Germ Cell Mutagenicity Category 1B

Carcinogenicity Category 1A

Unknown toxicity - Health

Acute toxicity, oral 26.86 %

Acute toxicity, dermal 28.86 %

Acute toxicity, inhalation, vapor 98.8 %

Acute toxicity, inhalation, dust or mist 98.96 %

Unknown toxicity - Environment

Acute hazards to the aquatic environment 48.01 %

Chronic hazards to the aquatic environment 100 %

Label Elements

Hazard Symbol:



Signal Word:	Danger
Hazard Statement:	Extremely flammable aerosol. Causes serious eye irritation. May cause genetic defects. May cause cancer. Pressurized container: May burst if heated.
Precautionary Statement:	
Prevention:	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required.
Response:	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. If exposed or concerned: Get medical advice/attention.
Storage:	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F. Store locked up.
Disposal:	Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
Other hazards which do not result in GHS classification:	None.

3. Composition/information on ingredients

Mixtures

Chemical Identity	CAS number	Content in percent (%)*
Methyl ethyl ketone	78-93-3	15 - 40%
Methyl acetate	79-20-9	15 - 40%
Liquefied petroleum gases	68476-86-8	15 - 40%
UV stabilizer	25973-55-1	1 - 5%
Aminosilane	919-30-2	1 - 5%
Carbon Black	1333-86-4	1 - 5%
Dimethylsulfoxide	67-68-5	1 - 5%
Naphtha, petroleum, hydrodesulfurized heavy	64742-82-1	0.5 - 1.5%
Methanol	67-56-1	0.5 - 1.5%

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures

Ingestion:	Call a POISON CENTER/doctor/.../if you feel unwell. Rinse mouth.
Inhalation:	Move to fresh air.
Skin Contact:	Wash skin thoroughly with soap and water. If skin irritation occurs: Get medical advice/attention.
Eye contact:	Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.

Most important symptoms/effects, acute and delayed

Symptoms: Respiratory tract irritation.

Indication of immediate medical attention and special treatment needed

Treatment: Symptoms may be delayed.

5. Fire-fighting measures

General Fire Hazards: Use water spray to keep fire-exposed containers cool. Fight fire from a protected location. Move containers from fire area if you can do so without risk.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing media: Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical: Vapors may travel considerable distance to a source of ignition and flash back.

Special protective equipment and precautions for firefighters

Special fire fighting procedures: No data available.

Special protective equipment for fire-fighters: Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Ventilate closed spaces before entering them. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep upwind.

Methods and material for containment and cleaning up: Stop the flow of material, if this is without risk. Absorb with sand or other inert absorbent.

Environmental Precautions: Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so.

7. Handling and storage

Precautions for safe handling: Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Use personal protective equipment as required. Avoid contact with eyes. Wash hands thoroughly after handling. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use.

Conditions for safe storage, including any incompatibilities: Store locked up. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Chemical Identity	type	Exposure Limit Values	Source
Methyl ethyl ketone	TWA	200 ppm	US. ACGIH Threshold Limit Values (2011)
	STEL	300 ppm	US. ACGIH Threshold Limit Values (2011)
	PEL	200 ppm 590 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Methyl acetate	TWA	200 ppm	US. ACGIH Threshold Limit Values (2011)
	STEL	250 ppm	US. ACGIH Threshold Limit Values (2011)
	PEL	200 ppm 610 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Carbon Black - Inhalable fraction.	TWA	3 mg/m3	US. ACGIH Threshold Limit Values (2011)
Carbon Black	PEL	3.5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Methanol	TWA	200 ppm	US. ACGIH Threshold Limit Values (2011)
	STEL	250 ppm	US. ACGIH Threshold Limit Values (2011)
	PEL	200 ppm 260 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Naphtha, petroleum, hydrodesulfurized heavy	TWA	100 ppm	US. ACGIH Threshold Limit Values (2011)

	PEL	500 ppm	2,900 mg/m ³	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	PEL	100 ppm	400 mg/m ³	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)

Chemical name	type	Exposure Limit Values		Source
Methyl ethyl ketone	TWA	50 ppm		Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	STEL	100 ppm		Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Methyl ethyl ketone	TWAEV	200 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
	STEL	300 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Methyl ethyl ketone	TWA	50 ppm	150 mg/m ³	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
	STEL	100 ppm	300 mg/m ³	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
Methyl acetate	TWA	200 ppm		Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	STEL	250 ppm		Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Methyl acetate	TWAEV	200 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
	STEL	250 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Methyl acetate	TWA	200 ppm	606 mg/m ³	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
	STEL	250 ppm	757 mg/m ³	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the

			Quality of the Work Environment) (12 2008)
Carbon Black - Inhalable	TWA	3 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (09 2011)
Carbon Black	TWAEV	3.5 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Carbon Black	TWA	3.5 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)

Biological Limit Values

Chemical Identity	Exposure Limit Values	Source
Methyl ethyl ketone (MEK: Sampling time: End of shift.)	2 mg/l (Urine)	ACGIH BEI (03 2013)
Methanol (methanol: Sampling time: End of shift.)	15 mg/l (Urine)	ACGIH BEI (03 2013)

Appropriate Engineering Controls No data available.

Individual protection measures, such as personal protective equipment

General information: Provide easy access to water supply and eye wash facilities. Good general ventilation (typically 10 air changes per hour) 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.

Eye/face protection: Wear safety glasses with side shields (or goggles).

Skin Protection

Hand Protection: No data available.

Other: No data available.

Respiratory Protection: In case of inadequate ventilation use suitable respirator. Seek advice from local supervisor.

Hygiene measures: Observe good industrial hygiene practices. Wash hands before breaks and immediately after handling the product. Avoid contact with eyes. When using do not smoke.

9. Physical and chemical properties

Appearance

Physical state:	Aerosols
Form:	Aerosols
Color:	No data available.
Odor:	Strong petroleum/solvent
Odor threshold:	No data available.
pH:	No data available.
Melting point/freezing point:	No data available.
Initial boiling point and boiling range:	No data available.
Flash Point:	-56 °C -69 °F
Evaporation rate:	Slower than Ether
Flammability (solid, gas):	Yes
Upper/lower limit on flammability or explosive limits	
Flammability limit - upper (%):	No data available.
Flammability limit - lower (%):	No data available.
Explosive limit - upper (%):	No data available.
Explosive limit - lower (%):	No data available.
Vapor pressure:	No data available.
Vapor density:	Vapors are heavier than air and may travel along the floor and in the bottom of containers.
Relative density:	0.7656
Solubility(ies)	
Solubility in water:	Practically Insoluble
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.
Auto-ignition temperature:	No data available.
Decomposition temperature:	No data available.
Viscosity:	No data available.

10. Stability and reactivity

Reactivity:	No data available.
Chemical Stability:	Material is stable under normal conditions.
Possibility of hazardous reactions:	No data available.
Conditions to avoid:	Avoid heat or contamination.
Incompatible Materials:	Avoid contact with oxidizing agents (e.g. nitric acid, peroxides and chromates).
Hazardous Decomposition Products:	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

11. Toxicological information

Information on likely routes of exposure

Ingestion:	May be ingested by accident. Ingestion may cause irritation and malaise.
Inhalation:	In high concentrations, vapors, fumes or mists may irritate nose, throat and mucus membranes.
Skin Contact:	Causes mild skin irritation.
Eye contact:	Causes serious eye irritation.

Information on toxicological effects**Acute toxicity (list all possible routes of exposure)**

Oral	
Product:	ATEmix: 5,311.84 mg/kg
Dermal	
Product:	ATEmix: 5,703.42 mg/kg
Inhalation	
Product:	No data available.

Repeated dose toxicity	
Product:	No data available.

Skin Corrosion/Irritation	
Product:	No data available.

Specified substance(s):	
Methyl ethyl ketone	in vivo (Rabbit): Read-across from supporting substance (structural analogue or surrogate), Key study
Methyl acetate	in vivo (Rabbit): Experimental result, Key study
UV stabilizer	in vivo (Rabbit): Experimental result, Key study
Aminosilane	in vivo (Rabbit): Experimental result, Supporting study
Carbon Black	in vivo (Rabbit): Experimental result, Key study
Dimethylsulfoxide	in vivo (Rabbit): Experimental result, Key study

Naphtha, petroleum, hydrodesulfurized heavy in vivo (Rabbit): Experimental result, Key study

Methanol in vivo (Rabbit): Experimental result, Key study

Serious Eye Damage/Eye Irritation

Product: No data available.

Specified substance(s):

Methyl ethyl ketone Irritating
in vivo (Rabbit, 24 hrs): Category 2

Methyl acetate Irritating
in vivo (Rabbit): Irritating

Aminosilane in vivo (Rabbit, 24 - 72 hrs): Highly irritating

Carbon Black in vivo (Rabbit, 24 - 72 hrs): Not irritating

Dimethylsulfoxide in vivo (Rabbit, 24 hrs): Slightly irritating

Naphtha, petroleum, hydrodesulfurized heavy in vivo (Rabbit, 24 - 72 hrs): Not irritating

Methanol in vivo (Rabbit, 24 hrs): Not irritating

Respiratory or Skin Sensitization

Product: No data available.

Carcinogenicity

Product: No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

Carbon Black Overall evaluation: Possibly carcinogenic to humans.

US. National Toxicology Program (NTP) Report on Carcinogens:

No carcinogenic components identified

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

No carcinogenic components identified

Germ Cell Mutagenicity

In vitro
Product: No data available.

In vivo
Product: No data available.

Reproductive toxicity
Product: No data available.

Specific Target Organ Toxicity - Single Exposure
Product: No data available.

Specific Target Organ Toxicity - Repeated Exposure
Product: No data available.

Aspiration Hazard
Product: No data available.

Other effects: No data available.

12. Ecological information**Ecotoxicity:****Acute hazards to the aquatic environment:****Fish**

Product: No data available.

Specified substance(s):

Methyl ethyl ketone LC 50 (Fathead minnow (Pimephales promelas), 96 h): 3,130 - 3,320 mg/l Mortality

Methyl acetate LC 50 (Fathead minnow (Pimephales promelas), 96 h): 295 - 348 mg/l Mortality

Dimethylsulfoxide LC 50 (Fathead minnow (Pimephales promelas), 96 h): 34,010 mg/l Mortality

Methanol LC 50 (Fathead minnow (Pimephales promelas), 96 h): 28,200 mg/l Mortality

Aquatic Invertebrates

Product: No data available.

Specified substance(s):

Methyl ethyl ketone LC 50 (Water flea (Daphnia magna), 24 h): 8,890 mg/l Mortality

LC 50 (Water flea (Daphnia magna), 48 h): > 520 mg/l Mortality

LC 50 (Opossum shrimp (Americamysis bahia), 96 h): > 402 mg/l Mortality

LC 50 (Water flea (Daphnia magna), 24 h): > 520 mg/l Mortality

Dimethylsulfoxide	LC 50 (Brine shrimp (<i>Artemia salina</i>), 24 h): 5,506.7 - 7,765.5 mg/l Mortality
Methanol	LC 50 (Water flea (<i>Daphnia magna</i>), 24 h): 3,616 - 6,414 mg/l Mortality EC 50 (Water flea (<i>Daphnia magna</i>), 48 h): > 10,000 mg/l Intoxication EC 50 (Water flea (<i>Daphnia magna</i>), 24 h): > 10,000 mg/l Intoxication LC 50 (Water flea (<i>Daphnia magna</i>), 96 h): > 100 mg/l Mortality LC 50 (Oligochaete, worm (<i>Lumbriculus variegatus</i>), 96 h): > 100 mg/l Mortality

Chronic hazards to the aquatic environment:

Fish

Product: No data available.

Specified substance(s):

Carbon Black	NOAEL (<i>Salmo</i> sp., 30 d): 17 mg/l QSAR QSAR, Key study
Naphtha, petroleum, hydrodesulfurized heavy	LL 50 (<i>Pimephales promelas</i> , 14 d): 5.2 mg/l Experimental result, Supporting study NOAEL (<i>Daphnia magna</i> , 21 d): 2.6 mg/l Other, Key study NOAEL (<i>Pimephales promelas</i> , 14 d): 2.6 mg/l Experimental result, Supporting study EC 50 (<i>Daphnia magna</i> , 21 d): 10 mg/l Other, Key study
Methanol	NOAEL (<i>Oryzias latipes</i> , 200 h): 15,800 mg/l Experimental result, Supporting study NOAEL (<i>Oryzias latipes</i> , 200 h): 158,000 mg/l Experimental result, Supporting study EC 50 (<i>Oryzias latipes</i> , 200 h): 9,164 mg/l Experimental result, Supporting study EC 50 (<i>Oryzias latipes</i> , 200 h): 10,270 mg/l Experimental result, Supporting study LOAEL (<i>Oryzias latipes</i> , 200 h): 7,900 mg/l Experimental result, Supporting study

Aquatic Invertebrates

Product: No data available.

Toxicity to Aquatic Plants

Product: No data available.

Persistence and Degradability

Biodegradation

Product: No data available.

BOD/COD Ratio

Product: No data available.

Bioaccumulative Potential

Bioconcentration Factor (BCF)

Product: No data available.

Specified substance(s):

Methanol Green algae (Chlorella fusca vacuolata), Bioconcentration Factor (BCF): 28,400 (Static)

Partition Coefficient n-octanol / water (log Kow)

Product: No data available.

Specified substance(s):

Methyl ethyl ketone Log Kow: 0.29
Methyl acetate Log Kow: 0.18
Dimethylsulfoxide Log Kow: -2.03
Methanol Log Kow: -0.77

Mobility in Soil: No data available.

Other Adverse Effects: No data available.

13. Disposal considerations

Disposal instructions: Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Contaminated Packaging: No data available.

14. Transport information

TDG:

UN1950, AEROSOLS, 2.1

CFR / DOT:

UN1950, Aerosols, 2.1

IMDG:

UN1950, AEROSOLS, 2.1

Further Information:

The above shipping description may not be accurate for all container sizes and all modes of transportation. Please refer to Bill of Lading.

15. Regulatory information

US Federal Regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

None present or none present in regulated quantities.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):

<u>Chemical Identity</u>	<u>Reportable quantity</u>
Methyl ethyl ketone	5000 lbs.
Methyl acetate	100 lbs.
Methanol	5000 lbs.
Ethyl alcohol	100 lbs.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Fire Hazard
Immediate (Acute) Health Hazards
Delayed (Chronic) Health Hazard

SARA 302 Extremely Hazardous Substance

None present or none present in regulated quantities.

SARA 304 Emergency Release Notification

<u>Chemical Identity</u>	<u>Reportable quantity</u>
Methyl ethyl ketone	5000 lbs.
Methyl acetate	100 lbs.
Methanol	5000 lbs.
Ethyl alcohol	100 lbs.

SARA 311/312 Hazardous Chemical

<u>Chemical Identity</u>	<u>Threshold Planning Quantity</u>
Methyl ethyl ketone	500 lbs
Methyl acetate	500 lbs
Liquefied petroleum gases	500 lbs
UV stabilizer	500 lbs
Aminosilane	500 lbs
Carbon Black	500 lbs
Dimethylsulfoxide	500 lbs
Naphtha, petroleum, hydrodesulfurized heavy	500 lbs
Methanol	500 lbs

SARA 313 (TRI Reporting)

None present or none present in regulated quantities.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

None present or none present in regulated quantities.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

None present or none present in regulated quantities.

US State Regulations

US. California Proposition 65

This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm.

US. New Jersey Worker and Community Right-to-Know Act

Chemical Identity

Methyl ethyl ketone
Methyl acetate
Carbon Black
Dimethylsulfoxide

US. Massachusetts RTK - Substance List

Chemical Identity

Methyl ethyl ketone
Methyl acetate

US. Pennsylvania RTK - Hazardous Substances

Chemical Identity

Methyl ethyl ketone
Methyl acetate

US. Rhode Island RTK

Chemical Identity

Methyl ethyl ketone

Other Regulations:

Regulatory VOC (less water and exempt solvent):	467 g/l
VOC Method 310:	48.91 %

Inventory Status:

EINECS, ELINCS or NLP:	One or more components in this product are not listed on or exempt from the Inventory.
Japan (ENCS) List:	One or more components in this product are not listed on or exempt from the Inventory.
Canada NDSL Inventory:	One or more components in this product are not listed on or exempt from the Inventory.
Japan ISHL Listing:	One or more components in this product are not listed on or exempt from the Inventory.
Japan Pharmacopoeia Listing:	One or more components in this product are not listed on or exempt from the Inventory.
Australia AICS:	One or more components in this product are not listed on or exempt from the Inventory.
Canada DSL Inventory List:	One or more components in this product are not listed on or exempt from the Inventory.
China Inv. Existing Chemical Substances:	One or more components in this product are not listed on or exempt from the Inventory.

Korea Existing Chemicals Inv. (KECI):	One or more components in this product are not listed on or exempt from the Inventory.
Philippines PICCS:	One or more components in this product are not listed on or exempt from the Inventory.
US TSCA Inventory:	One or more components in this product are not listed on or exempt from the Inventory.
New Zealand Inventory of Chemicals:	One or more components in this product are not listed on or exempt from the Inventory.

16. Other information, including date of preparation or last revision
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Revision Date:	06/24/2016
Version #:	1.2
Further Information:	No data available.
Disclaimer:	For Industrial Use Only. Keep out of Reach of Children. The hazard information herein is offered solely for the consideration of the user, subject to their own investigation of compliance with applicable regulations, including the safe use of the product under every foreseeable condition.