# **SAFETY DATA SHEET**



Date of issue/Date of revision 6 October 2016 Version 7

Section 1. Identification		
Product name	: MEDIUM REDUCER	
Product code	: MR186	
Other means of identification	: Not available.	
Product type	: Liquid.	
Relevant identified uses of	the substance or mixture and uses advised against	
Product use	: Industrial applications.	
Use of the substance/ mixture	: Coating. Paints. Painting-related materials.	
Uses advised against	: Not applicable.	
Manufacturer	: PPG Industries, Inc. One PPG Place, Pittsburgh, PA 15272	
Emergency telephone number	: (412) 434-4515 (U.S.) (514) 645-1320 (Canada) 01-800-00-21-400 (Mexico)	
Technical Phone Number	: 1-800-647-6050	

# Section 2. Hazards identification

OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture	<ul> <li>AMMABLE LIQUIDS - Category 2         ACUTE TOXICITY (oral) - Category 4         ACUTE TOXICITY (inhalation) - Category 4         SKIN IRRITATION - Category 2         EYE IRRITATION - Category 2A         CARCINOGENICITY - Category 2         TOXIC TO REPRODUCTION (Unborn child) - Category 2         SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3         SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3         SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2         </li> </ul>

#### **GHS label elements**

Product name MEDIUM REDUCER

# Section 2. Hazards identification

Hazard pictograms	
Signal word	: Danger
Hazard statements	<ul> <li>Highly flammable liquid and vapor. Harmful if swallowed or if inhaled. Causes serious eye irritation. Causes skin irritation. Suspected of damaging the unborn child. Suspected of causing cancer. May cause respiratory irritation. May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated exposure.</li> </ul>
Precautionary statements	
Prevention	: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves. Wear eye or face protection. Wear protective clothing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. 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. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.
Response	: Get medical attention if you feel unwell. IF exposed or concerned: Get medical attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse mouth. 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 and wash it before reuse. If skin irritation occurs: Get medical attention. 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 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.
Supplemental label elements	: Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapor/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Avoid contact with skin and clothing. Wash thoroughly after handling. Emits toxic fumes when heated.
Hazards not otherwise classified	: Prolonged or repeated contact may dry skin and cause irritation.

Product name MEDIUM REDUCER

# Section 3. Composition/information on ingredients

#### Substance/mixture

**Product name** 

: Mixture

#### : MEDIUM REDUCER

Ingredient name	%	CAS number
butanone	≥20 - ≤50	78-93-3
toluene	≥20 - ≤50	108-88-3
Ligroine	≥10 - ≤20	8032-32-4
Solvent naphtha (petroleum), light aromatic	≥10 - ≤20	64742-95-6
1,2,4-trimethylbenzene	≥5.0 - ≤10	95-63-6
Solvent naphtha (petroleum), light aliph.	≥1.0 - ≤5.0	64742-89-8
methylcyclohexane	≥1.0 - ≤5.0	108-87-2
heptane	≥1.0 - ≤5.0	142-82-5
cumene	<1.0	98-82-8

SUB codes represent substances without registered CAS Numbers.

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

There are no additional ingredients present which, within 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.

## Section 4. First aid measures

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately; have Safety Data Sheet information available. Never give anything by mouth to an unconscious or convulsing person.

#### Description of necessary first aid measures

Eye contact	: Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.
Inhalation	<ul> <li>Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.</li> </ul>
Skin contact	: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.
Ingestion	: If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.
Most important symptom	s/effects, acute and delayed
Potential acute health e	ffects
Eye contact	: Causes serious eye irritation.
Inhalation	: Farmful if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.
Skin contact	: Causes skin irritation. Defatting to the skin.
Ingestion	: Harmful if swallowed. Can cause central nervous system (CNS) depression.

#### Over-exposure signs/symptoms

Product name MEDIUM REDUCER

## Section 4. First aid measures

Eye contact       : Adverse symptoms may include the following: pain or irritation watering redness         Inhalation       : Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal maformations         Skin contact       : Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal maformations         Skin contact       : Adverse symptoms may include the following: irritation redness dryness cracking reduced fetal weight increase in fetal deaths skeletal maformations         Ingestion       : Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal maformations         Indication of immediate medical attention and special treatment needed, if necessary Notes to physician Respecific treatments       : 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 or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.		
respiratory tract irritation         coughing         nausea or vomiting         headache         drowsiness/fatigue         dizziness/vertigo         unconsciousness         reduced fetal weight         increase in fetal deaths         skeletal malformations         Skin contact       : Adverse symptoms may include the following:         irritation         reduced fetal weight         increase in fetal deaths         skeletal malformations         Ingestion         : Adverse symptoms may include the following:         reduced fetal weight         increase in fetal deaths         skeletal malformations         Ingestion         : Adverse symptoms may include the following:         reduced fetal weight         increase in fetal deaths         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 specific treatment.         Protection of first-aiders	Eye contact	pain or irritation watering
irritation       redness         dryness       cracking         reduced fetal weight       increase in fetal deaths         increase in fetal deaths       skeletal malformations         Ingestion       : Adverse symptoms may include the following:         reduced fetal weight       increase in fetal deaths         increase in fetal deaths       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 or self-contained breathing apparatus. It may be dangerous to the person providing aid to	Inhalation	respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths
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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 or self-contained breathing apparatus. It may be dangerous to the person providing aid to	Ingestion	reduced fetal weight increase in fetal deaths
<ul> <li>specific treatments</li> <li>Protection of first-aiders</li> <li>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 or self-contained breathing apparatus. It may be dangerous to the person providing aid to</li> </ul>	Indication of immediate me	dical attention and special treatment needed, if necessary
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 or self-contained breathing apparatus. It may be dangerous to the person providing aid to	Notes to physician	
suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to	Specific treatments	: No specific treatment.
	Protection of first-aiders	suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to

See toxicological information (Section 11)

# Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.

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# Section 5. Fire-fighting measures

Specific hazards arising from the chemical	: Highly 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. 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. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

# Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures			
For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. 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

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# Section 6. Accidental release measures

# Section 7. Handling and storage

Precautions for safe handling	L Contraction of the second
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 ingest. 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.
Special precautions Advice on general occupational hygiene	<ul> <li>Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Vapors are heavier than air and may spread along floors. If this material is part of a multiple component system, read the Safety Data Sheet(s) for the other component or components before blending as the resulting mixture may have the hazards of all of its parts.</li> <li>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 spreader the sector of a store of a store of a store of a store of the sector.</li> </ul>
	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	: Do not store above the following temperature: 35°C (95°F). 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.

# Section 8. Exposure controls/personal protection

#### **Control parameters**

**Occupational exposure limits** 

Ingredient name	Exposure limits
butanone	ACGIH TLV (United States, 3/2015). STEL: 885 mg/m <sup>3</sup> 15 minutes. STEL: 300 ppm 15 minutes. TWA: 590 mg/m <sup>3</sup> 8 hours. TWA: 200 ppm 8 hours. OSHA PEL (United States, 2/2013). TWA: 590 mg/m <sup>3</sup> 8 hours. TWA: 200 ppm 8 hours.
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## Section 8. Exposure controls/personal protection

toluene	OSHA PEL Z2 (United States, 2/2013).
	AMP: 500 ppm 10 minutes.
	CEIL: 300 ppm
	TWA: 200 ppm 8 hours.
	ACGIH TLV (United States, 3/2015).
	TWA: 20 ppm 8 hours.
Ligroine	None.
Solvent naphtha (petroleum), light aromatic	None.
1,2,4-trimethylbenzene	ACGIH TLV (United States, 3/2015).
	TWA: 123 mg/m <sup>3</sup> 8 hours.
	TWA: 25 ppm 8 hours.
Solvent naphtha (petroleum), light aliph.	None.
methylcyclohexane	ACGIH TLV (United States, 3/2015).
	TWA: 1610 mg/m <sup>3</sup> 8 hours.
	TWA: 400 ppm 8 hours.
	OSHA PEL (United States, 2/2013).
	TWA: 2000 mg/m <sup>3</sup> 8 hours.
	TWA: 500 ppm 8 hours.
heptane	ACGIH TLV (United States, 3/2015).
	STEL: 2050 mg/m <sup>3</sup> 15 minutes.
	STEL: 500 ppm 15 minutes.
	TWA: 1640 mg/m <sup>3</sup> 8 hours.
	TWA: 400 ppm 8 hours.
	OSHA PEL (United States, 2/2013).
	TWA: 2000 mg/m <sup>3</sup> 8 hours.
	TWA: 500 ppm 8 hours.
cumene	ACGIH TLV (United States, 3/2015).
	TWA: 50 ppm 8 hours.
	OSHA PEL (United States, 2/2013).
	Absorbed through skin.
	TWA: 245 mg/m <sup>3</sup> 8 hours.
	TWA: 50 ppm 8 hours.
Key to abbreviation	
A = Acceptable Maximum Peak	S = Potential skin absorption
ACGIH = American Conference of Governmental Industrial Hygienists.	SR = Respiratory sensitization
C = Ceiling Limit F = Fume	SS = Skin sensitization STEL = Short term Exposure limit values
IPEL = Internal Permissible Exposure Limit	TD = Total dust
OSHA = Occupational Safety and Health Administration.	TLV = Threshold Limit Value

Occupational R = Respirable

= OSHA 29 CFR 1910.1200 Subpart Z - Toxic and Hazardous Substances Ζ

#### Consult local authorities for acceptable exposure limits.

procedures

**Recommended monitoring** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

TWA

= Time Weighted Average

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# Section 8. Exposure controls/personal protection

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	<ul> <li>Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.</li> </ul>
Individual protection meas	<u>ures</u>
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. 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.
Eye/face protection <u>Skin protection</u>	: 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. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
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	<ul> <li>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. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.</li> </ul>

# Section 9. Physical and chemical properties

		United States	Page: 8/16
Flash point	: Closed cup: -4.44°C (24°F)		
Boiling point	: >37.78°C (>100°F)		
Melting point	: Not available.		
рН	: Not available.		
Odor threshold	: Not available.		
Odor	: Not available.		
Color	: Not available.		
Physical state	: Liquid.		
Appearance			

Product name MEDIUM REDUCER

# Section 9. Physical and chemical properties

Auto-ignition temperature: Not available.Decomposition temperature: Not available.Flammability (solid, gas): Not available.Lower and upper explosive: Lower: 1.2%(flammable) limits: Lower: 1.2%Evaporation rate: 3.47 (butyl acetate = 1)Vapor pressure: 5.5 kPa (41.3 mm Hg) [room temperature]Vapor density: Not available.Relative density: 0.82Density ( lbs / gal ): 6.84Solubility: Insoluble in the following materials: cold water.Partition coefficient: n- octanol/water: Not available.Viscosity: Kinematic (40°C (104°F)): >0.21 cm²/s (>21 cSt)Volatility: 100% (v/v), 100% (w/w)% Solid. (w/w): 0	-		
Flammability (solid, gas): Not available.Lower and upper explosive (flammable) limits: Lower: 1.2%Evaporation rate: 3.47 (butyl acetate = 1)Vapor pressure: 5.5 kPa (41.3 mm Hg) [room temperature]Vapor density: Not available.Relative density: 0.82Density ( lbs / gal ): 6.84Solubility: Insoluble in the following materials: cold water.Partition coefficient: n- octanol/water: Not available.Viscosity: Kinematic (40°C (104°F)): >0.21 cm²/s (>21 cSt)Volatility: 100% (v/v), 100% (w/w)	Auto-ignition temperature	1	Not available.
Lower and upper explosive (flammable) limits: Lower: 1.2%Evaporation rate: 3.47 (butyl acetate = 1)Vapor pressure: 5.5 kPa (41.3 mm Hg) [room temperature]Vapor density: Not available.Relative density: 0.82Density ( lbs / gal ): 6.84Solubility: Insoluble in the following materials: cold water.Partition coefficient: n- octanol/water: Not available.Viscosity: Kinematic (40°C (104°F)): >0.21 cm²/s (>21 cSt)Volatility: 100% (v/v), 100% (w/w)	Decomposition temperature	:	Not available.
(flammable) limitsEvaporation rate: 3.47 (butyl acetate = 1)Vapor pressure: 5.5 kPa (41.3 mm Hg) [room temperature]Vapor density: 5.5 kPa (41.3 mm Hg) [room temperature]Vapor density: 0.82Density ( lbs / gal ): 6.84Solubility: Insoluble in the following materials: cold water.Partition coefficient: n- octanol/water: Not available.Viscosity: Kinematic (40°C (104°F)): >0.21 cm²/s (>21 cSt)Volatility: 100% (v/v), 100% (w/w)	Flammability (solid, gas)	1	Not available.
Vapor pressure: 5.5 kPa (41.3 mm Hg) [room temperature]Vapor density: Not available.Relative density: 0.82Density ( lbs / gal ): 6.84Solubility: Insoluble in the following materials: cold water.Partition coefficient: n- octanol/water: Not available.Viscosity: Kinematic (40°C (104°F)): >0.21 cm²/s (>21 cSt)Volatility: 100% (v/v), 100% (w/w)		1	Lower: 1.2%
Vapor density: Not available.Relative density: 0.82Density ( lbs / gal ): 6.84Solubility: Insoluble in the following materials: cold water.Partition coefficient: n- octanol/water: Not available.Viscosity: Kinematic (40°C (104°F)): >0.21 cm²/s (>21 cSt)Volatility: 100% (v/v), 100% (w/w)	Evaporation rate	1	3.47 (butyl acetate = 1)
Relative density: 0.82Density ( lbs / gal ): 6.84Solubility: Insoluble in the following materials: cold water.Partition coefficient: n- octanol/water: Not available.Viscosity: Kinematic (40°C (104°F)): >0.21 cm²/s (>21 cSt)Volatility: 100% (v/v), 100% (w/w)	Vapor pressure	1	5.5 kPa (41.3 mm Hg) [room temperature]
Density ( lbs / gal ): 6.84Solubility: Insoluble in the following materials: cold water.Partition coefficient: n- octanol/water: Not available.Viscosity: Kinematic (40°C (104°F)): >0.21 cm²/s (>21 cSt)Volatility: 100% (v/v), 100% (w/w)	Vapor density	:	Not available.
Solubility: Insoluble in the following materials: cold water.Partition coefficient: n- octanol/water: Not available.Viscosity: Kinematic (40°C (104°F)): >0.21 cm²/s (>21 cSt)Volatility: 100% (v/v), 100% (w/w)	Relative density	:	0.82
Partition coefficient: n- octanol/water: Not available.Viscosity: Kinematic (40°C (104°F)): >0.21 cm²/s (>21 cSt)Volatility: 100% (v/v), 100% (w/w)	Density(lbs / gal)	:	6.84
octanol/water         Kinematic (40°C (104°F)): >0.21 cm²/s (>21 cSt)           Volatility         : 100% (v/v), 100% (w/w)	Solubility	1	Insoluble in the following materials: cold water.
Volatility : 100% (v/v), 100% (w/w)		1	Not available.
	Viscosity	:	Kinematic (40°C (104°F)): >0.21 cm²/s (>21 cSt)
	Volatility	1	100% (v/v), 100% (w/w)
	% Solid. (w/w)	:	0

# Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: When exposed to high temperatures may produce hazardous decomposition products. Refer to protective measures listed in sections 7 and 8.
Incompatible materials	: Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.
Hazardous decomposition products	: Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

# Section 11. Toxicological information

Information on toxicological effects Acute toxicity

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# Section 11. Toxicological information

Product/ingredient name	Result			Species	Dose	Exposure
butanone	LC50 Inhal	ation Vapo	r	Rat	11243 ppm	4 hours
	LD50 Derm	nal		Rabbit	6480 mg/kg	-
	LD50 Oral			Rat	2737 mg/kg	-
toluene	LC50 Inhal			Rat	49 g/m³	4 hours
	LC50 Inhal		r	Rat	8000 ppm	4 hours
	LD50 Derm	nal		Rabbit	8.39 g/kg	-
	LD50 Oral			Rat	636 mg/kg	-
Ligroine	LC50 Inhal			Rat	3400 ppm	4 hours
Solvent naphtha (petroleum), light aromatic	LD50 Derm	nal		Rabbit	3.48 g/kg	-
	LD50 Oral			Rat	8400 mg/kg	-
1,2,4-trimethylbenzene	LC50 Inhal	ation Vapo	r	Rat	18000 mg/m³	4 hours
	LD50 Oral			Rat	5 g/kg	-
methylcyclohexane	LD50 Oral			Rat	4 g/kg	-
heptane	LC50 Inhal			Rat	48000 ppm	4 hours
	LC50 Inhal			Rat	103 g/m³	4 hours
cumene	LC50 Inhal		r	Rat	39000 mg/m <sup>3</sup>	4 hours
	LD50 Derm	nal		Rabbit	12.3 g/kg	-
	LD50 Oral			Rat	1400 mg/kg	-
Conclusion/Summary	: There are	e no data av	vailable on th	e mixture itself.		
Irritation/Corrosion						
Conclusion/Summary						
Skin	: There are	no data av	vailable on th	e mixture itself.		
Eyes	: There are	no data av	vailable on th	e mixture itself.		
Respiratory	: There are	no data av	vailable on th	e mixture itself.		
<u>Sensitization</u>						
Conclusion/Summary						
Skin	: There are	no data av	vailable on th	e mixture itself.		
Respiratory	: There are	no data av	vailable on th	e mixture itself.		
<u>Mutagenicity</u>						
Conclusion/Summary	: There are	no data av	vailable on th	e mixture itself.		
<b>Carcinogenicity</b>						
Conclusion/Summary	: There are	no data av	vailable on th	e mixture itself.		
<u>Classification</u>						
Product/ingredient name	OSHA	IARC	NTP			
toluene	-	3	-			
		00				

**Carcinogen Classification code:** 

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IARC: 1, 2A, 2B, 3, 4 NTP: Known to be a human carcinogen; Reasonably anticipated to be a human carcinogen OSHA: + Not listed/not regulated: -

2B

#### **Reproductive toxicity**

cumene

**Conclusion/Summary** 

: There are no data available on the mixture itself.

Reasonably anticipated to be a human carcinogen.

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# Section 11. Toxicological information

#### **Teratogenicity**

**Conclusion/Summary** : There are no data available on the mixture itself.

#### Specific target organ toxicity (single exposure)

Name	Category
butanone	Category 3
toluene	Category 3
Solvent naphtha (petroleum), light aromatic 1,2,4-trimethylbenzene	Category 3 Category 3
Solvent naphtha (petroleum), light aliph.	Category 3
methylcyclohexane	Category 3
heptane	Category 3
cumene	Category 3

#### Specific target organ toxicity (repeated exposure)

Name	Cat	tegory
toluene		egory 2
cumene	Cat	egory 2

#### Target organs

: Contains material which causes damage to the following organs: brain, central nervous system (CNS).

Contains material which may cause damage to the following organs: blood, kidneys, lungs, the nervous system, the reproductive system, liver, heart, peripheral nervous system, upper respiratory tract, skin, eye, lens or cornea.

#### Aspiration hazard

Name	Result
Ligroine Solvent naphtha (petroleum), light aromatic Solvent naphtha (petroleum), light aliph. methylcyclohexane heptane	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

#### Information on the likely routes of exposure

#### Potential acute health effects

Eye contact	: Causes serious eye irritation.
Inhalation	: Marmful if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.
Skin contact	: Causes skin irritation. Defatting to the skin.
Ingestion	: Harmful if swallowed. Can cause central nervous system (CNS) depression.
Over-exposure signs/	'symptoms
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness

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# Section 11. Toxicological information

Inhalation Skin contact	<ul> <li>Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations</li> <li>Adverse symptoms may include the following: irritation redness dryness cracking reduced fetal weight</li> </ul>
	increase in fetal deaths
	skeletal malformations
Ingestion	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
Delayed and immediate effec	ts and also chronic effects from short and long term exposure
Conclusion/Summary	: There are no data available on the mixture itself. Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. There is some evidence that repeated exposure to organic solvent vapors in combination with constant loud noise can cause greater hearing loss than expected from exposure to noise alone. If splashed in the eyes, the liquid may cause irritation and reversible damage. Ingestion may cause nausea, diarrhea and vomiting. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.
<u>Short term exposure</u>	
Potential immediate effects	: There are no data available on the mixture itself.
Potential delayed effects	: There are no data available on the mixture itself.
Long term exposure	
Potential immediate effects	: There are no data available on the mixture itself.
Potential delayed effects	: There are no data available on the mixture itself.
Potential chronic health effe	
	: May cause damage to organs through prolonged or repeated exposure. Prolonged or
General	repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.
General Carcinogenicity	

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## Section 11. Toxicological information

- **Mutagenicity** : No known significant effects or critical hazards.
- **Teratogenicity** : Suspected of damaging the unborn child.
- **Developmental effects** : No known significant effects or critical hazards.
- . Fertility effects
- No known significant effects or critical hazards.
   No known significant effects or critical hazards.
- Numerical measures of toxicity

#### Acute toxicity estimates

Route	ATE value	
Øral	1788.3 mg/kg	
Dermal	26511.1 mg/kg	
Inhalation (gases)	15623.2 ppm	
Inhalation (vapors)	272.1 mg/l	
Inhalation (dusts and mists)	22.68 mg/l	

# Section 12. Ecological information

#### **Toxicity**

Not available.

#### Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
toluene	-	-	Readily

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
butanone	0.29	-	low
toluene	2.73	8.32	low
1,2,4-trimethylbenzene	3.63	120.23	low
methylcyclohexane	3.61	186.21	low
heptane	4.66	-	high
cumene	3.66	35.48	low

#### Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

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## Section 13. Disposal considerations

**Disposal methods** 

: 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 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.

Disposal should be in accordance with applicable regional, national and local laws and regulations. Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees. Section 6. Accidental release measures

### 14. Transport information

	DOT	IMDG	ΙΑΤΑ
UN number	UN1263	UN1263	UN1263
UN proper shipping name	PAINT RELATED MATERIAL	PAINT RELATED MATERIAL	PAINT RELATED MATERIAL
Transport hazard class (es)	3	3	3
Packing group	II	II	II
Environmental hazards	No.	Yes.	No.
Marine pollutant substances	Not applicable.	(Solvent naphtha (petroleum), light aromatic, 1,2, 4-trimethylbenzene)	Not applicable.
Product RQ (lbs)	4041.1	Not applicable.	Not applicable.
RQ substances	(toluene, butanone)	Not applicable.	Not applicable.

# Additional information DOT : Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements. IMDG : The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg. IATA : The environmentally hazardous substance mark may appear if required by other transportation regulations. 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 event of an accident or spillage.

Product name MEDIUM REDUCER

# Section 15. Regulatory information

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#### United States

United States inventory (TSCA 8b) : All components are listed or exempted.

U.S. Federal regulations

#### SARA 302/304

SARA 304 RQ : Not applicable.

Composition/information on ingredients

No products were found.

#### 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
butanone	Yes.	No.	No.	Yes.	No.
toluene	Yes.	No.	No.	Yes.	Yes.
Ligroine	Yes.	No.	No.	Yes.	No.
Solvent naphtha (petroleum), light aromatic	Yes.	No.	No.	Yes.	No.
1,2,4-trimethylbenzene	Yes.	No.	No.	Yes.	No.
Solvent naphtha (petroleum), light aliph.	No.	No.	No.	Yes.	No.
methylcyclohexane	Yes.	No.	No.	Yes.	No.
heptane	Yes.	No.	No.	Yes.	No.
cumene	Yes.	No.	No.	Yes.	Yes.

#### <u>SARA 313</u>

Chemical name	<u>CAS number</u>	<b>Concentration</b>
: toluene	108-88-3	10 - 30
1,2,4-trimethylbenzene	95-63-6	3 - 7

SARA 313 notifications must not be detached from the 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.

Additional environmental information is contained on the Environmental Data Sheet for this product, which can be obtained from your PPG representative.

#### California Prop. 65

**Supplier notification** 

**WARNING:** This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

Product name MEDIUM REDUCER

# Section 16. Other information

Hazardous Material Information System (U.S.A.)

Health : 2 \* Flammability : 3 Physical hazards : 0

(\*) - Chronic effects

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

National Fire Protection Ass	sociation (U.S.A.)
Health : 2 Flamma	ability : 3 Instability : 0
Date of previous issue	: 9/1/2016
Organization that prepared the MSDS	: EHS
Key to abbreviations	: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) UN = United Nations

#### Indicates information that has changed from previously issued version.

#### **Disclaimer**

The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by PPG, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.