



Safety Data Sheet

Copyright,2013,3M Company.

All rights reserved. Copying and/or downloading of this information for the purpose of properly utilizing 3M products is allowed provided that: (1) the information is copied in full with no changes unless prior written agreement is obtained from 3M, and (2) neither the copy nor the original is resold or otherwise distributed with the intention of earning a profit thereon.

Document Group:	27-0717-2	Version Number:	1.00
Issue Date:	2013/05/26	Supercedes Date:	Initial Issue

This Safety Data Sheet has been prepared in accordance with the China GB/T16483-2008 'Safety data sheet for chemical products content and order of sections.'

SECTION 1: Identification

1.1. Product identifier

3M™ Acryl-Red Glazing Putty PN 05098

Product identification numbers

41-0003-6503-5 41-0003-8045-5 60-4550-4985-2 GT-6000-1812-8

1.2. Recommended use and restrictions on use

Recommended use

Automotive

1.3. Supplier's details

Company: 3M International Trading (Shanghai) Co.Ltd
ADDRESS: No.858, YingLun Road, WaiGaoQiao Free Trade Zone, Shanghai, 200131
Phone: 021-62753535
FAX: 021-22105036
E Mail: Tox.cn@mmm.com
Website: www.3m.com.cn

1.4. Emergency telephone number

Company Emergency Hotline: 021-22105335

Country Emergency Hotline: 0532-83889090

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Flammable Liquid: Category 2.

Serious Eye Damage/Irritation: Category 2A.

Skin Corrosion/Irritation: Category 2.

Reproductive Toxicity: Category 1B.

Specific Target Organ Toxicity (single exposure): Category 2.

Specific Target Organ Toxicity (central nervous system): Category 3.

Specific Target Organ Toxicity (repeated exposure): Category 1.

Acute Aquatic Toxicity: Category 3.

2.2. Label elements

SIGNAL WORD

DANGER!

Symbols

Flame | Exclamation mark | Health Hazard |

Pictograms



HAZARD STATEMENTS

H225	Highly flammable liquid and vapor.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H360	May damage fertility or the unborn child.
H371	May cause damage to organs: respiratory system
H372	Causes damage to organs through prolonged or repeated exposure: nervous system respiratory system sensory organs
H402	Harmful to aquatic life.

PRECAUTIONARY STATEMENTS

General:

P102	Keep out of reach of children.
P101	If medical advice is needed, have product container or label at hand.

Prevention:

P201	Obtain special instructions before use.
P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P271	Use only outdoors or in a well-ventilated area.
P280D	Wear protective gloves, protective clothing, and eye/face protection.

Response:

P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P332 + P313	If skin irritation occurs: Get medical advice/attention.
P308 + P313	IF exposed or concerned: Get medical advice/attention.
P370 + P378G	In case of fire: Use a fire fighting agent suitable for flammable liquids and solids such as dry chemical or carbon dioxide.

3M™ Acryl-Red Glazing Putty PN 05098**Storage:**

P405 Store locked up.

Disposal:

P501 Dispose of contents/container in accordance with applicable local/regional/national/international regulations.

2.3. Other hazards

None known

SECTION 3: Composition/information on ingredients

This material is a mixture.

Ingredient	C.A.S. No.	% by Wt
TALC	14807-96-6	30 - 60
TOLUENE	108-88-3	10 - 30
N-BUTYL ACETATE	123-86-4	7 - 13
MAGNESIUM CARBONATE	546-93-0	5 - 10
ETHANOL, 2,2'-OXYBIS-,DIBENZOATE	120-55-8	3 - 10
NITROCELLULOSE	9004-70-0	3 - 7
MALEIC MODIFIED ROSIN RESIN (NJTSRN-6784)	Trade Secret	1 - 5
IRON OXIDE	1332-37-2	1 - 5
ISOPROPYL ALCOHOL	67-63-0	1 - 5
DIBENZOATE PROPANOL	27138-31-4	0.5 - 2.5
DIBENZOATE ESTER	Trade Secret	0.5 - 1.5
ETHYLBENZENE	100-41-4	< 0.01
BENZENE	71-43-2	< 0.01

SECTION 4: First aid measures**4.1. Description of first aid measures****Inhalation:**

Remove person to fresh air. If you feel unwell, get medical attention.

Skin Contact:

Immediately wash with soap and water. Remove contaminated clothing and wash before reuse. If signs/symptoms develop, get medical attention.

Eye Contact:

Immediately flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. Get medical attention.

If Swallowed:

Rinse mouth. If you feel unwell, get medical attention.

4.2. Most important symptoms and effects, both acute and delayed

See Section 11.1 Information on toxicological effects

4.3. Advice to protect the rescuer and special warning to doctors

Refer to other sections of this MSDS for information regarding physical and health hazards, respiratory protection, ventilation

and personal protective equipment.

4.4. Indication of any immediate medical attention and special treatment required

Not applicable

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

In case of fire: Use a fire fighting agent suitable for flammable liquids and solids such as dry chemical or carbon dioxide.

5.2. Special hazards arising from the substance or mixture

Closed containers exposed to heat from fire may build pressure and explode.

5.3. Special protective actions for fire-fighters

Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Warning! A motor could be an ignition source and could cause flammable gases or vapors in the spill area to burn or explode. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

6.2. Environmental precautions

Avoid release to the environment. For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water.

6.3. Methods and material for containment and cleaning up

Cover spill area with a fire-extinguishing foam. An appropriate aqueous film forming foam (AFFF) is recommended. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a toxic, corrosivity or flammability hazard. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible using non-sparking tools. Place in a metal container approved for transportation by appropriate authorities. Clean up residue with an appropriate solvent selected by a qualified and authorized person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and MSDS. Seal the container. Dispose of collected material as soon as possible.

6.4. Secondary disaster prevention measures

Not applicable.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid breathing of dust created by cutting, sanding, grinding or machining. Do not use in a confined area or areas with little or no air movement. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Use explosion-proof electrical/ventilating/lighting/equipment. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid release to the environment. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.) Wear low static or properly grounded

shoes. Use personal protective equipment (eg. gloves, respirators...) as required. Vapors may travel long distances along the ground or floor to an ignition source and flash back.

7.2. Conditions for safe storage including any incompatibilities

Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store away from acids. Store away from oxidizing agents.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Ingredient	C.A.S. No.	Agency	Limit type	Additional Comments
ETHYLBENZENE	100-41-4	Amer Conf of Gov. Indust. Hyg.	TWA:20 ppm	
ETHYLBENZENE	100-41-4	Chemical Manufacturer Rec Guid	TWA:25 ppm;STEL:75 ppm	
ETHYLBENZENE	100-41-4	China OELs	TWA(8 hours):100 mg/m3;STEL(15 minutes):150 mg/m3	
ETHYLBENZENE	100-41-4	Hong Kong OELs	TWA(8 hours):434 mg/m3(100 ppm);STEL(15 minutes):543 mg/m3(125 ppm)	
TOLUENE	108-88-3	Amer Conf of Gov. Indust. Hyg.	TWA:20 ppm	
TOLUENE	108-88-3	Chemical Manufacturer Rec Guid	STEL:75 ppm	Skin Notation
TOLUENE	108-88-3	China OELs	TWA(8 hours):50 mg/m3;STEL(15 minutes):100 mg/m3	Skin Notation
TOLUENE	108-88-3	Hong Kong OELs	TWA(8 hours):188 mg/m3(50 ppm)	
N-BUTYL ACETATE	123-86-4	Amer Conf of Gov. Indust. Hyg.	TWA:150 ppm;STEL:200 ppm	
N-BUTYL ACETATE	123-86-4	China OELs	TWA(8 hours):200 mg/m3;STEL(15 minutes):300 mg/m3	
N-BUTYL ACETATE	123-86-4	Hong Kong OELs	TWA(8 hours):713 mg/m3(150 ppm);STEL(15 minutes):950 mg/m3(200 ppm)	
TALC	14807-96-6	Amer Conf of Gov. Indust. Hyg.	TWA(respirable fraction):2 mg/m3	
TALC	14807-96-6	Chemical Manufacturer Rec Guid	TWA(as respirable dust):0.5 mg/m3	
TALC	14807-96-6	China OELs	TWA(as respirable dust)(8 hours):1 mg/m3;TWA(as total	

TALC	14807-96-6	Hong Kong OELs	dust)(8 hours):3 mg/m3 TWA(as respirable dust)(8 hours):2 mg/m3	
ISOPROPYL ALCOHOL	67-63-0	Amer Conf of Gov. Indust. Hyg.	TWA:200 ppm;STEL:400 ppm	
ISOPROPYL ALCOHOL	67-63-0	China OELs	TWA(8 hours):350 mg/m3;STEL(15 minutes):700 mg/m3	
ISOPROPYL ALCOHOL	67-63-0	Hong Kong OELs	TWA(8 hours):983 mg/m3(400 ppm);STEL(15 minutes):1230 mg/m3(500 ppm)	
BENZENE	71-43-2	Amer Conf of Gov. Indust. Hyg.	TWA:0.5 ppm;STEL:2.5 ppm	Skin Notation
BENZENE	71-43-2	China OELs	TWA(8 hours):6 mg/m3;STEL(15 minutes):10 mg/m3	Skin Notation
BENZENE	71-43-2	Hong Kong OELs	TWA(8 hours):1.6 mg/m3(0.5 ppm);STEL(15 minutes):8 mg/m3(2.5 ppm)	

Amer Conf of Gov. Indust. Hyg. : American Conference of Governmental Industrial Hygienists
 Chemical Manufacturer Rec Guid : Chemical Manufacturer's Recommended Guidelines
 China OELs : China. Occupational Exposure Limits for Hazardous Agents in the Workplace (GBZ 2.1)
 Hong Kong OELs : Hong Kong. Occupational Exposure Limits for Chemical Substances in the Work Environment
 TWA: Time-Weighted-Average
 STEL: Short Term Exposure Limit
 ppm: parts per million
 mg/m3: milligrams per cubic metre
 CEIL: Ceiling

8.2. Exposure controls

8.2.1. Engineering controls

Provide appropriate local exhaust ventilation for sanding, grinding or machining. Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapors/spray. If ventilation is not adequate, use respiratory protection equipment. Use explosion-proof ventilation equipment.

8.2.2. Personal protective equipment (PPE)

Eye/face protection

Wear eye/face protection.
 The following eye protection(s) are recommended: Safety Glasses with side shields
 Indirect Vented Goggles

Skin/hand protection

Wear protective gloves.
 Select and use gloves and/or protective clothing to prevent skin contact based on the results of an exposure assessment. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible materials. Gloves made from the following material(s) are recommended: Polyvinyl Alcohol (PVA)
 Polymer laminate

Respiratory protection

Wear respiratory protection if ventilation is inadequate to prevent overexposure.

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:

Half facepiece or full facepiece air-purifying respirator suitable for organic vapors and particulates

For questions about suitability for a specific application, consult with your respirator manufacturer.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid
Appearance/Odor	Red Paste with Solvent Odor
Odor threshold	<i>No Data Available</i>
pH	<i>Not Applicable</i>
Melting point/Freezing point	<i>No Data Available</i>
Boiling point/Initial boiling point/Boiling range	> 35 °C [<i>Details: MITS data</i>]
Flash Point	8.9 °C [<i>Test Method: Closed Cup</i>]
Evaporation rate	<i>No Data Available</i>
Flammability (solid, gas)	Not Applicable
Flammable Limits(LEL)	1.27 %
Flammable Limits(UEL)	7 %
Vapor Pressure	<=186,158.4 Pa [<i>@ 55 °C</i>] [<i>Details: MITS data</i>]
Vapor Density	4.00 [<i>Ref Std: AIR=1</i>]
Density	1.51 - 1.56 g/ml
Relative Density	1.510 - 1.560 [<i>Ref Std: WATER=1</i>]
Water solubility	Nil
Solubility- non-water	<i>No Data Available</i>
Partition coefficient: n-octanol/ water	<i>No Data Available</i>
Autoignition temperature	<i>No Data Available</i>
Decomposition temperature	<i>No Data Available</i>
Viscosity	90 - 170 Pa-s [<i>@ 23 °C</i>] [<i>Details: MITS data</i>]
Hazardous Air Pollutants	16.5 % weight [<i>Test Method: Calculated</i>]
Volatile Organic Compounds	464 g/l [<i>Test Method: calculated SCAQMD rule 443.1</i>]
Volatile Organic Compounds	3.88 lb/gal [<i>Test Method: calculated SCAQMD rule 443.1</i>]
Volatile Organic Compounds	30.3 % weight [<i>Test Method: calculated per CARB title 2</i>]
Percent volatile	30.3 %
VOC Less H2O & Exempt Solvents	465 g/l [<i>Test Method: calculated SCAQMD rule 443.1</i>]

SECTION 10: Stability and reactivity

10.1. Reactivity

This material is considered to be non reactive under normal use conditions

10.2. Chemical stability

Stable.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

Sparks and/or flames

Heat

10.5. Incompatible materials

Strong acids

Strong oxidizing agents

10.6. Hazardous decomposition products

<u>Substance</u>	<u>Condition</u>
Carbon monoxide	Not Specified
Carbon dioxide	Not Specified
Toxic Vapor, Gas, Particulate	Not Specified

SECTION 11: Toxicological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labeling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

11.1. Information on Toxicological effects

Signs and Symptoms of Exposure

Based on test data and/or information on the components, this material may produce the following health effects:

Inhalation:

Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

Dust from cutting, grinding, sanding or machining may cause irritation of the respiratory system. Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

May cause target organ effects after inhalation.

Skin Contact:

Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, dryness, cracking, blistering, and pain.

Eye Contact:

Severe Eye Irritation: Signs/symptoms may include significant redness, swelling, pain, tearing, cloudy appearance of the cornea, and impaired vision.

Dust created by cutting, grinding, sanding, or machining may cause eye irritation. Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

Ingestion:

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

May cause target organ effects after ingestion.

Target Organ Effects:

Single exposure may cause:

Central Nervous System (CNS) Depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness.

Respiratory Effects: Signs/symptoms may include cough, shortness of breath, chest tightness, wheezing, increased heart rate, bluish colored skin (cyanosis), sputum production, changes in lung function tests, and/or respiratory failure.

Prolonged or repeated exposure may cause:

Pneumoconiosis: Sign/symptoms may include persistent cough, breathlessness, chest pain, increased amounts of sputum, and changes in lung function tests.

Ocular Effects: Signs/symptoms may include blurred or significantly impaired vision.

Auditory Effects: Signs/symptoms may include hearing impairment, balance dysfunction and ringing in the ears.

Olfactory Effects: Signs/symptoms may include decreased ability to detect odors and/or complete loss of smell.

Neurological Effects: Signs/symptoms may include personality changes, lack of coordination, sensory loss, tingling or numbness of the extremities, weakness, tremors, and/or changes in blood pressure and heart rate.

Reproductive/Developmental Toxicity:

Contains a chemical or chemicals which can cause birth defects or other reproductive harm.

Toxicological Data

Acute Toxicity

Name	Route	Species	Value
Overall product	Ingestion		Data not available or insufficient for classification; calculated ATE > 5,000 mg/kg
TALC	Ingestion		LD50 estimated to be > 5,000 mg/kg
TOLUENE	Dermal	Rat	LD50 12,000 mg/kg
TOLUENE	Inhalation-Vapor (4 hours)	Rat	LC50 30 mg/l
TOLUENE	Ingestion	Rat	LD50 2,600 mg/kg
N-BUTYL ACETATE	Dermal	Rabbit	LD50 > 5,000 mg/kg
N-BUTYL ACETATE	Inhalation-Dust/Mist (4 hours)	Rat	LC50 1.4 mg/l
N-BUTYL ACETATE	Inhalation-Vapor (4 hours)	Rat	LC50 1.4 mg/l
N-BUTYL ACETATE	Ingestion	Rat	LD50 > 8,800 mg/kg
MAGNESIUM CARBONATE	Ingestion	Mouse	LD50 > 5,000 mg/kg
NITROCELLULOSE	Ingestion	Rat	LD50 > 5,000 mg/kg
ETHANOL, 2,2'-OXYBIS-, DIBENZOATE			Data not available or insufficient for classification
ISOPROPYL ALCOHOL	Dermal	Rabbit	LD50 12,870 mg/kg
ISOPROPYL ALCOHOL	Inhalation-Vapor (4 hours)	Rat	LC50 72.6 mg/l
ISOPROPYL ALCOHOL	Ingestion	Rat	LD50 4,710 mg/kg
IRON OXIDE	Dermal		LD50 3,100 mg/kg
IRON OXIDE	Inhalation-Dust/Mist (4 hours)		LC50 0.96 mg/l

3M™ Acryl-Red Glazing Putty PN 05098

IRON OXIDE	Ingestion		LD50 3,700 mg/kg
DIBENZOATE PROPANOL	Dermal	Rat	LD50 > 2,000 mg/kg
DIBENZOATE PROPANOL	Inhalation-Dust/Mist (4 hours)	Rat	> 200 mg/l
DIBENZOATE PROPANOL	Ingestion	Rat	LD50 3,295 mg/kg
DIBENZOATE ESTER			Data not available or insufficient for classification
ETHYLBENZENE	Dermal	Rabbit	LD50 15,433 mg/kg
ETHYLBENZENE	Inhalation-Vapor (4 hours)	Rat	LC50 17.2 mg/l
ETHYLBENZENE	Ingestion	Rat	LD50 4,769 mg/kg
BENZENE			Data not available or insufficient for classification

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
TALC		No significant irritation
TOLUENE		Irritant
N-BUTYL ACETATE		Minimal irritation
MAGNESIUM CARBONATE		Data not available or insufficient for classification
NITROCELLULOSE		No significant irritation
ETHANOL, 2,2'-OXYBIS-,DIBENZOATE		Data not available or insufficient for classification
ISOPROPYL ALCOHOL		No significant irritation
IRON OXIDE		No significant irritation
DIBENZOATE PROPANOL		No significant irritation
DIBENZOATE ESTER		Data not available or insufficient for classification
ETHYLBENZENE		Mild irritant
BENZENE		Data not available or insufficient for classification

Serious Eye Damage/Irritation

Name	Species	Value
TALC		Data not available or insufficient for classification
TOLUENE		Moderate irritant
N-BUTYL ACETATE		Moderate irritant
MAGNESIUM CARBONATE		Data not available or insufficient for classification
NITROCELLULOSE		No significant irritation
ETHANOL, 2,2'-OXYBIS-,DIBENZOATE		Data not available or insufficient for classification
ISOPROPYL ALCOHOL		Moderate irritant
IRON OXIDE		No significant irritation
DIBENZOATE PROPANOL		No significant irritation
DIBENZOATE ESTER		Data not available or insufficient for classification
ETHYLBENZENE		Moderate irritant
BENZENE		Data not available or insufficient for classification

Skin Sensitization

Name	Species	Value
TALC		Data not available or insufficient for classification

3M™ Acryl-Red Glazing Putty PN 05098

TOLUENE		Not sensitizing
N-BUTYL ACETATE		Not sensitizing
MAGNESIUM CARBONATE		Data not available or insufficient for classification
NITROCELLULOSE		Data not available or insufficient for classification
ETHANOL, 2,2'-OXYBIS-,DIBENZOATE		Data not available or insufficient for classification
ISOPROPYL ALCOHOL		Not sensitizing
IRON OXIDE		Some positive data exist, but the data are not sufficient for classification
DIBENZOATE PROPANOL		Not sensitizing
DIBENZOATE ESTER		Data not available or insufficient for classification
ETHYLBENZENE		Not sensitizing
BENZENE		Data not available or insufficient for classification

Respiratory Sensitization

Name	Species	Value
TALC		Not sensitizing
TOLUENE		Data not available or insufficient for classification
N-BUTYL ACETATE		Data not available or insufficient for classification
MAGNESIUM CARBONATE		Data not available or insufficient for classification
NITROCELLULOSE		Data not available or insufficient for classification
ETHANOL, 2,2'-OXYBIS-,DIBENZOATE		Data not available or insufficient for classification
ISOPROPYL ALCOHOL		Data not available or insufficient for classification
IRON OXIDE		Data not available or insufficient for classification
DIBENZOATE PROPANOL		Data not available or insufficient for classification
DIBENZOATE ESTER		Data not available or insufficient for classification
ETHYLBENZENE		Data not available or insufficient for classification
BENZENE		Data not available or insufficient for classification

Germ Cell Mutagenicity

Name	Route	Value
TALC	In Vitro	Not mutagenic
TALC	In vivo	Not mutagenic
TOLUENE	In Vitro	Not mutagenic
TOLUENE	In vivo	Not mutagenic
N-BUTYL ACETATE	In Vitro	Not mutagenic
MAGNESIUM CARBONATE		Data not available or insufficient for classification
NITROCELLULOSE		Data not available or insufficient for classification
ETHANOL, 2,2'-OXYBIS-,DIBENZOATE		Data not available or insufficient for classification
ISOPROPYL ALCOHOL	In Vitro	Not mutagenic
ISOPROPYL ALCOHOL	In vivo	Not mutagenic

IRON OXIDE	In Vitro	Not mutagenic
DIBENZOATE PROPANOL	In Vitro	Not mutagenic
DIBENZOATE ESTER		Data not available or insufficient for classification
ETHYLBENZENE	In vivo	Not mutagenic
ETHYLBENZENE	In Vitro	Some positive data exist, but the data are not sufficient for classification
BENZENE		Data not available or insufficient for classification

Carcinogenicity

Name	Route	Species	Value
TALC	Inhalation		Some positive data exist, but the data are not sufficient for classification
TOLUENE	Dermal		Some positive data exist, but the data are not sufficient for classification
TOLUENE	Ingestion		Some positive data exist, but the data are not sufficient for classification
TOLUENE	Inhalation		Some positive data exist, but the data are not sufficient for classification
N-BUTYL ACETATE			Data not available or insufficient for classification
MAGNESIUM CARBONATE			Data not available or insufficient for classification
NITROCELLULOSE			Data not available or insufficient for classification
ETHANOL, 2,2'-OXYBIS-,DIBENZOATE			Data not available or insufficient for classification
ISOPROPYL ALCOHOL	Inhalation	Rat	Some positive data exist, but the data are not sufficient for classification
ISOPROPYL ALCOHOL	Not Specified		Some positive data exist, but the data are not sufficient for classification
IRON OXIDE	Inhalation		Some positive data exist, but the data are not sufficient for classification
DIBENZOATE PROPANOL			Data not available or insufficient for classification
DIBENZOATE ESTER			Data not available or insufficient for classification
ETHYLBENZENE	Inhalation		Carcinogenic
BENZENE	Not Specified		Carcinogenic

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test Result	Exposure Duration
TALC	Ingestion	Not toxic to reproduction and/or development		NOEL 1,600 mg/kg/day	
TALC	Ingestion	Not toxic to development	Rat	NOAEL 1,600 mg/kg	during organogenesis
TOLUENE	Inhalation	Some positive female reproductive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	occupational exposure
TOLUENE	Inhalation	Some positive male reproductive data exist, but the data are not sufficient for	Rat	NOAEL 2.3 mg/l	1 generation

3M™ Acryl-Red Glazing Putty PN 05098

		classification			
TOLUENE	Ingestion	Toxic to reproduction and/or development		LOAEL 520 mg/kg	
TOLUENE	Ingestion	Toxic to development	Rat	LOAEL 520 mg/kg/day	during gestation
TOLUENE	Inhalation	Toxic to reproduction and/or development		NOAEL N/A	
TOLUENE	Inhalation	Toxic to development	Human	NOAEL Not available	poisoning and/or abuse
N-BUTYL ACETATE	Inhalation	Not toxic to female reproduction	Rat	NOAEL 7.1 mg/l	premating & during gestation
N-BUTYL ACETATE	Inhalation	Some positive reproductive/developmental data exist, but the data are not sufficient for classification		NOAEL 1,500 ppm	
N-BUTYL ACETATE	Inhalation	Some positive developmental data exist, but the data are not sufficient for classification	Rat	NOAEL 7.1 mg/l	premating & during gestation
MAGNESIUM CARBONATE		Data not available or insufficient for classification			
NITROCELLULOSE		Data not available or insufficient for classification			
ETHANOL, 2,2'-OXYBIS-.DIBENZOATE		Data not available or insufficient for classification			
ISOPROPYL ALCOHOL	Ingestion	Some positive reproductive/developmental data exist, but the data are not sufficient for classification		NOEL 400 mg/kg/day	
ISOPROPYL ALCOHOL	Inhalation	Some positive reproductive/developmental data exist, but the data are not sufficient for classification		LOEL 9,001 mg/m3	
ISOPROPYL ALCOHOL	Ingestion	Some positive developmental data exist, but the data are not sufficient for classification	Rat	NOAEL 400 mg/kg/day	during organogenesis
ISOPROPYL ALCOHOL	Inhalation	Some positive developmental data exist, but the data are not sufficient for classification	Rat	LOAEL 9 mg/l	during gestation
IRON OXIDE		Data not available or insufficient for classification			
DIBENZOATE PROPANOL	Ingestion	Not toxic to female reproduction	Rat	NOAEL 500 mg/kg/day	2 generation
DIBENZOATE PROPANOL	Ingestion	Not toxic to male reproduction	Rat	NOAEL 400 mg/kg/day	2 generation

3M™ Acryl-Red Glazing Putty PN 05098

DIBENZOATE PROPANOL	Ingestion	Some positive reproductive/developmental data exist, but the data are not sufficient for classification		NOEL 250 mg/kg/day	
DIBENZOATE PROPANOL	Ingestion	Some positive developmental data exist, but the data are not sufficient for classification	Rat	NOAEL 1,000 mg/kg/day	during gestation
DIBENZOATE ESTER		Data not available or insufficient for classification			
ETHYLBENZENE	Inhalation	Some positive reproductive/developmental data exist, but the data are not sufficient for classification		LOEL 0.43 mg/l	
ETHYLBENZENE	Inhalation	Some positive developmental data exist, but the data are not sufficient for classification	Rat	NOAEL 4.3 mg/l	prematuring & during gestation
BENZENE	Not Specified	Toxic to reproduction and/or development			

Lactation

Name	Route	Species	Value
TOLUENE	Not Specified		Some positive data exist, but the data are not sufficient for classification

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
TALC	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		Irritation Positive	
TOLUENE	Inhalation	central nervous system depression	May cause drowsiness or dizziness		NOAEL 0.15 mg/l	
TOLUENE	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		Irritation Positive	
TOLUENE	Inhalation	immune system	Some positive data exist, but the data are not sufficient for classification		NOAEL N/A	
TOLUENE	Ingestion	central nervous system	May cause drowsiness or		NOAEL N/A	

3M™ Acryl-Red Glazing Putty PN 05098

		depression lacrimation	dizziness Some positive data exist, but the data are not sufficient for classification		LOEL 7.5 mg/l	
TOLUENE	Ocular					
N-BUTYL ACETATE	Inhalation	respiratory system	May cause damage to organs		LOAEL 2,565 mg/m3	
N-BUTYL ACETATE	Inhalation	central nervous system depression	May cause drowsiness or dizziness		NOAEL N/A	
N-BUTYL ACETATE	Inhalation	respiratory irritation	May cause respiratory irritation		Irritation Positive	
MAGNESIUM CARBONATE			Data not available or insufficient for classification			
NITROCELLULOSE			Data not available or insufficient for classification			
ETHANOL, 2,2'-OXYBIS-,DIBENZOATE			Data not available or insufficient for classification			
ISOPROPYL ALCOHOL	Inhalation	central nervous system depression	May cause drowsiness or dizziness		NOAEL N/A	
ISOPROPYL ALCOHOL	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		RD50 5,000 ppm	
ISOPROPYL ALCOHOL	Inhalation	auditory system	Some positive data exist, but the data are not sufficient for classification	Guinea pig	NOAEL 13.4 mg/l	24 hours
ISOPROPYL ALCOHOL	Ingestion	central nervous system depression	May cause drowsiness or dizziness		NOAEL N/A	
IRON OXIDE	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		Irritation Positive	
DIBENZOATE PROPANOL			Data not available or insufficient for classification			
DIBENZOATE ESTER			Data not available or insufficient for classification			
ETHYLBENZENE	Inhalation	central nervous system depression	May cause drowsiness or dizziness		LOAEL 0.43 mg/l	
ETHYLBENZENE	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for		Irritation Positive	

			classification			
BENZENE			Data not available or insufficient for classification			

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
TALC	Inhalation	pneumoconiosis	Causes damage to organs through prolonged or repeated exposure		NOAEL N/A	
TALC	Inhalation	pulmonary fibrosis respiratory system	Some positive data exist, but the data are not sufficient for classification		LOEL 6 mg/m3	
TOLUENE	Inhalation	auditory system olfactory system	Causes damage to organs through prolonged or repeated exposure		NOAEL N/A	
TOLUENE	Inhalation	nervous system	Causes damage to organs through prolonged or repeated exposure		LOAEL 0.33 mg/l	
TOLUENE	Inhalation	eyes	Causes damage to organs through prolonged or repeated exposure		LOAEL 0.15-0.23 mg/l	
TOLUENE	Inhalation	respiratory system	Some positive data exist, but the data are not sufficient for classification		LOAEL 2.3 mg/l	
TOLUENE	Inhalation	hematopoietic system immune system vascular system	Some positive data exist, but the data are not sufficient for classification		NOAEL N/A	
TOLUENE	Inhalation	heart kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification		NOEL 4.7 mg/l	
TOLUENE	Inhalation	liver	Some positive data exist, but the data are not sufficient for classification		NOEL 2.4 mg/l	
TOLUENE	Inhalation	bone, teeth, nails, and/or hair	Some positive data exist, but the data are not sufficient for classification		LOEL 1.1 mg/l	
TOLUENE	Inhalation	endocrine system	Some positive data exist, but the data are not sufficient for classification		LOEL 0.11 mg/l	
TOLUENE	Ingestion	nervous system	Some positive		NOAEL 446	

3M™ Acryl-Red Glazing Putty PN 05098

			data exist, but the data are not sufficient for classification		mg/kg/day	
TOLUENE	Ingestion	endocrine system	Some positive data exist, but the data are not sufficient for classification		NOEL N/A	
TOLUENE	Ingestion	hematopoietic system	Some positive data exist, but the data are not sufficient for classification		LOEL 600 mg/kg/day	
TOLUENE	Ingestion	heart	Some positive data exist, but the data are not sufficient for classification		NOEL 446 mg/kg/day	
TOLUENE	Ingestion	liver	Some positive data exist, but the data are not sufficient for classification		LOEL 223 mg/kg/day	
TOLUENE	Ingestion	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification		NOEL 223 mg/kg/day	
TOLUENE	Ingestion	immune system	Some positive data exist, but the data are not sufficient for classification		LOEL 22 mg/kg/day	
N-BUTYL ACETATE	Inhalation	liver kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification		LOEL 7,260 mg/m3	
N-BUTYL ACETATE	Inhalation	olfactory system	Some positive data exist, but the data are not sufficient for classification		NOAEL 2,400 mg/m3	
MAGNESIUM CARBONATE			Data not available or insufficient for classification			
NITROCELLULOSE			Data not available or insufficient for classification			
ETHANOL, 2,2'-OXYBIS-,DIBENZOATE			Data not available or insufficient for classification			
ISOPROPYL ALCOHOL	Inhalation	auditory system	Some positive data exist, but the data are not sufficient for		LOEL 969 mg/m3	

3M™ Acryl-Red Glazing Putty PN 05098

			classification			
ISOPROPYL ALCOHOL	Inhalation	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification		NOEL 1.2 mg/l	
ISOPROPYL ALCOHOL	Inhalation	nervous system	All data are negative		NOEL 12 mg/l	
ISOPROPYL ALCOHOL	Ingestion	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification		NOEL N/A	
IRON OXIDE	Inhalation	pneumoconiosis	Causes damage to organs through prolonged or repeated exposure		LOAEL 0.01 mg/l	
IRON OXIDE	Inhalation	pulmonary fibrosis	Some positive data exist, but the data are not sufficient for classification		NOAEL N/A	
DIBENZOATE PROPANOL	Ingestion	hematopoietic system	Some positive data exist, but the data are not sufficient for classification		NOEL 250 mg/kg/day	
DIBENZOATE PROPANOL	Ingestion	liver	Some positive data exist, but the data are not sufficient for classification		NOEL 1,000 mg/kg/day	
DIBENZOATE ESTER			Data not available or insufficient for classification			
ETHYLBENZENE	Inhalation	liver kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification		NOAEL 1.1 mg/l	
ETHYLBENZENE	Inhalation	hematopoietic system	Some positive data exist, but the data are not sufficient for classification		NOEL 1.6 mg/l	
ETHYLBENZENE	Inhalation	auditory system	Some positive data exist, but the data are not sufficient for classification		NOEL 1.3 mg/l	
ETHYLBENZENE	Inhalation	endocrine system	Some positive data exist, but the data are not sufficient for classification		NOEL 0.32 mg/l	
ETHYLBENZENE	Inhalation	bone, teeth, nails, and/or hair muscles	All data are negative		NOAEL 4.2 mg/l	
ETHYLBENZENE	Inhalation	heart immune system	All data are negative		NOAEL 3.2 mg/l	

3M™ Acryl-Red Glazing Putty PN 05098

		respiratory system				
ETHYLBENZENE	Ingestion	liver	Some positive data exist, but the data are not sufficient for classification		NOEL 136 mg/kg/day	
ETHYLBENZENE	Ingestion	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification		NOEL 136 mg/kg	
BENZENE			Data not available or insufficient for classification			

Aspiration Hazard

Name	Value
TALC	Not an aspiration hazard
TOLUENE	Aspiration hazard
N-BUTYL ACETATE	Not an aspiration hazard
MAGNESIUM CARBONATE	Not an aspiration hazard
NITROCELLULOSE	Not an aspiration hazard
ETHANOL, 2,2'-OXYBIS-,DIBENZOATE	Not an aspiration hazard
ISOPROPYL ALCOHOL	Not an aspiration hazard
IRON OXIDE	Not an aspiration hazard
DIBENZOATE PROPANOL	Not an aspiration hazard
DIBENZOATE ESTER	Not an aspiration hazard
ETHYLBENZENE	Aspiration hazard
BENZENE	Not an aspiration hazard

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

SECTION 12: Ecological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. Additional information leading to material classification in Section 2 is available upon request. In addition, environmental fate and effects data on ingredients may not be reflected in this section because an ingredient is present below the threshold for labeling, an ingredient is not expected to be available for exposure, or the data is considered not relevant to the material as a whole.

12.1. Toxicity**Acute aquatic hazard:**

GHS Acute 3: Harmful to aquatic life.

Chronic aquatic hazard:

Not chronically toxic to aquatic life by GHS criteria.

No product test data available

No component test data available

12.2. Persistence and degradability

No test data available

12.3. Bioaccumulative potential

No test data available

12.4. Mobility in soil

Please contact manufacturer for more details

12.5 Other adverse effects

No information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Dispose of contents/ container in accordance with the local/regional/national/international regulations

Incinerate in a permitted waste incineration facility. As a disposal alternative, utilize an acceptable permitted waste disposal facility. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

SECTION 14: Transport Information

Local Regulations

China transport hazard class: Class 3 Flammable liquid

International Regulations

UN No.: UN 1263

UN Proper Shipping Name: Paint Related Material

Transport hazard class (IMO): Flammable liquid

Transport hazard class (IATA): Flammable liquid

Packing Group: II

Environmental Hazards:

Not applicable

Special precautions for user

Not applicable.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

This product complies with Measures on Environmental Management of New Chemical Substances. All ingredients are listed on or exempt from on China IECSC inventory.

This safety data sheet is in compliance with the following national standards: GB/T16483-2008 Safety data sheet for chemical products content and order of sections, GB13690-2009 General rule for classification and hazard communication of chemicals, GB15258-2009 General rules for preparation of precautionary label for chemicals, GB6944-2005 Classification and code of dangerous goods, GB/T15098-2008 The principle of classification of transport packaging groups of dangerous goods, GB18218-2009 Identify major source of dangerous chemical, GB190-2009 Packing symbol of dangerous goods, GB/T191-2008 Packaging- Pictorial marking for handling of Goods, GB12268-2012 List of dangerous goods, GA57-1993 Classification and Code of Very Toxic chemical, GBZ/T210.1-2008 Occupational exposure limits for airborne chemical in

the workplace, GBZ/T210.2-2008 Occupational exposure limits for airborne dusts in the workplace, GBZ/T210.3-2008 Occupational exposure Limit for physical agents in workplace, as well as the following national regulations: Dangerous Goods Transport Administrative Regulation, Dangerous Chemicals Safety Administrative Regulation (China State Council Decree No. 591), United Nations Regulations on the Transport of Dangerous Goods (UN RTDG).

For more information, contact the manufacturer listed in Section 1 of this Safety Data Sheet.

SECTION 16: Other information

References

United Nations 'Recommendations on the Transport of Dangerous Goods - Model Regulations '

United Nations 'Globally Harmonized System of Classification and Labelling of Chemicals (GHS)'.

Revision information:

No revision information is available.

DISCLAIMER: The information on this Safety Data Sheet is based on our experience and is correct to the best of our knowledge at the date of publication, but we do not accept any liability for any loss, damage or injury resulting from its use (except as required by law). The information may not be valid for any use not referred to in this Data Sheet or use of the product in combination with other materials. For these reasons, it is important that customers carry out their own test to satisfy themselves as to the suitability of the product for their own intended applications.

3M People's Republic of China MSDSs are available at www.3m.com.cn