

Slide Products, Inc.
430 South Wheeling Road
Wheeling, Illinois, U.S.A.
60090

45416T SLIDE THERMOSET MOLD RELEASE

SDS Preparation Date (dd/mm/yyyy): 27/01/2011

SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product identifier: Slide Thermoset Mold Release

Product Code(s) : 45416T

Relevant identified uses of the substance or mixture and uses advised against: Aerosol spray for stopping parts from sticking on molds for thermoset plastics, rubber and similar materials. Ideal for injection, compression and transfer molding.

Use pattern: Restricted to professional users.

Details of the supplier of the safety data sheet: Slide Products, Inc.

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60090

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2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Water white, mobile liquid contained in pressurized aerosol can. Mild, halogenated hydrocarbon odour.

Most important hazards: The preparation is classified as dangerous in accordance with Directive 1999/45/EC.

Classification:

F+;R12 - Extremely flammable.

Xi - Irritant

R36/38 - Irritating to eyes and skin.

T - Toxic

Carc.Cat.2;R45 - May cause cancer.

Muta.Cat.2;R46 - May cause heritable genetic damage.

R67 - Vapours may cause drowsiness and dizziness.

R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Restricted to professional users.

Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50 °C.

Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material.

Keep away from sources of ignition - No smoking.

Keep out of the reach of children.

Label elements:



Extremely flammable



Toxic

Hazardous components which must be listed on the label: Trichloroethylene; Naphtha (petroleum) light catalytic reformed, aromatic-free.

R36/38 - Irritating to eyes and skin.

R45 - May cause cancer.

R46 - May cause heritable genetic damage.

R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R67 - Vapours may cause drowsiness and dizziness.

Restricted to professional users.

Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking. Keep out of the reach of children.

S23 - Do not breathe spray, vapour.

S38 - In case of insufficient ventilation, wear suitable respiratory equipment.

S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S53 - Avoid exposure - obtain special instructions before use.

S60 - This material and its container must be disposed of as hazardous waste.

Other hazards

Other hazards which do not result in classification:

Ingestion may cause severe irritation to the mouth, throat and stomach. Prolonged overexposure may cause liver and kidney effects. Burning produces obnoxious and toxic fumes.

Environmental precautions:

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Avoid release to the environment.

PBT assessment: No information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances : Not applicable

Mixtures: Chemical nature of the preparation: Mixture - Halogenated compounds; Petroleum distillates; Polymer; gas.

The following substances shall be indicated according to legislation:

Chemical name	CAS #	EC No.	Concentration	EU Classification
Trichloroethylene	79-01-6	201-167-4	78.0 - 85.0	T – Toxic Carc.Cat.2;R45 Xn – Harmful Muta.Cat.3;R68 R67 Xi - Irritant;R36/38 R52/53
Propane	74-98-6	200-827-9	10.0 - 20.0	F+ - Extremely flammable;R12
Naphtha (petroleum) light catalytic reformed, aromatic-free	68513-03-1	270-993-5	1.0 - 5.0	T – Toxic Carc.Cat.2;R45 Muta.Cat.2;R46 Xn - Harmful;R65

For the full text of the R phrases mentioned in this Section, see Section 16.

4. FIRST-AID MEASURES

Description of first aid measures

Ingestion: In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Never give anything by mouth to an unconscious person.

Inhalation: In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). If breathed in, move person into fresh air. If breathing is irregular or stopped, administer artificial respiration. If breathing is difficult, give oxygen by qualified medical personnel only.

Skin contact: In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Remove/Take off immediately all contaminated clothing. Wash off with soap and plenty of water. Wash contaminated clothing before reuse.

Eye contact: In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Most important symptoms and effects, both acute and delayed: Irritating to eyes and skin.

May cause cancer.

May cause heritable genetic damage.

Vapours may cause drowsiness and dizziness.

Ingestion may cause severe irritation to the mouth, throat and stomach.

Prolonged overexposure may cause liver and kidney effects.

Indication of any immediate medical attention and special treatment needed: In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media: Dry chemical; Carbon dioxide (CO₂); Foam.

Unsuitable extinguishing media: Use water spray with caution.

Special hazards arising from the substance or mixture: Extremely flammable. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50 °C. Closed containers are contained under pressure and may explode if exposed to excess heat for a prolonged period of time. Burning produces obnoxious and toxic fumes. In the event of fire the following can be released: Carbon oxides; Hydrogen chloride gas; Chlorine; Phosgene.

Advice for firefighters

Protective equipment for fire-fighters: Wear self-contained breathing apparatus and protective suit. Fight fire with normal precautions from a reasonable distance. Shield personnel to protect from venting or rupturing containers.

Special fire-fighting procedures: Move containers from fire area if safe to do so. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses. Dike for water control.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Wear suitable protective equipment. Keep people away from and upwind of spill/leak.

Environmental precautions: Do not allow material to contaminate ground water system.

Methods and material for containment and cleaning up: Ventilate the area. Prevent further leakage or spillage if safe to do so. Eliminate all ignition sources if safe to do so. Use only non-sparking tools. For spilled liquids: absorb spill with inert, non-combustible material such as sand, then place into suitable containers. Keep in properly labelled containers. Contaminated absorbent material may pose the same hazards as the spilled product. Contact the proper local authorities.

Reference to other sections: Refer to protective measures listed in sections 7 and 8. Refer to Section 13 for disposal of contaminated material.

7. HANDLING AND STORAGE

Precautions for safe handling: Avoid exposure - obtain special instructions before use. Restricted to professional users. Use only in well-ventilated areas. Wear protective gloves/clothing and eye/face protection. In case of insufficient ventilation wear suitable respiratory equipment. Do not breathe vapours or spray mist. Avoid contact with skin, eyes and clothing. Keep away from heat and sources of ignition. Do not puncture or incinerate. Keep container tightly closed. Empty containers retain residue (liquid and/or vapour) and can be dangerous. Wash thoroughly after handling.

Conditions for safe storage, including any incompatibilities: Keep containers tightly closed in a cool, well-ventilated place. Keep away from heat. Inspect periodically for damage or leaks. Protect against physical damage. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50 °C. No smoking in the area.

Specific end use(s): Aerosol spray for stopping parts from sticking on molds for thermoset plastics, rubber and similar materials. Ideal for injection, compression and transfer molding.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters

Exposure Limits:

Chemical Name	Exposure Limits	Type	Notes
Naphtha (petroleum) light catalytic reformed, aromatic-free	None known.	European Union (OEL)	None.
Propane	1000 ppm (1800 mg/m ³) (exposure factor 4) (TWA)	Germany (OEL)	None.

	1800 mg/m ³ (TWA)	Poland (OEL)	None.
	1000 ppm (TWA)	Spain (OEL)	None.
Trichloroethylene	75 ppm (405 mg/m ³) (TWA) 200 ppm (1080 mg/m ³) (STEL)	France (OEL)	None.
	50 mg/m ³ (TWA) 400 mg/m ³ (STEL)	Poland (OEL)	None.
	50 ppm (273 mg/m ³) (TWA)	Spain (OEL)	None.
	100 ppm (550 mg/m ³) (TWA) 150 ppm (820 mg/m ³) (STEL)	The United Kingdom (The United Kingdom (WELs))	Potential for cutaneous absorption

Exposure controls:

Ventilation and engineering measures: Use only in well-ventilated areas. Apply technical measures to comply with the occupational exposure limits. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. In case of insufficient ventilation wear suitable respiratory equipment.

Respiratory protection: In the case of vapour formation use a respirator with an approved filter. The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be used.

Skin protection: Wear protective gloves. The suitability for a specific workplace should be discussed with the producers of the protective gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/689/EEC and the standard EN 374 derived from it.

Eye / face protection: Wear protective gloves and eye/face protection. Chemical resistant goggles must be worn.

Other protective equipment: Wear suitable protective equipment. Ensure that eyewash stations and safety showers are close to the workstation location.

General hygiene considerations: Do not breathe vapours or spray mist. Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Remove and wash contaminated clothing before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance:	Water white, mobile liquid contained in pressurized aerosol can.
Odour:	Mild, halogenated hydrocarbon odour.
Odour threshold:	No information available.
PH:	No information available.
Flash point:	No information available.
Flashpoint (Method):	No information available.
Lower flammable limit (% by vol.):	No information available.
Upper flammable limit (% by vol.) :	No information available.
Flammability (solid, gas):	Not applicable.
Auto-ignition temperature:	No information available.
Decomposition temperature:	No information available.
Oxidizing properties:	None known.
Explosive properties:	May be sensitive to static discharge.
Initial boiling point and boiling range:	39.4 - 87.8°C
Melting/Freezing point:	< - 45.6°C
Relative density:	1.18
Solubility in water:	No information available.
Other solubility(ies):	No information available.
Vapour pressure:	59 mmHg @ 21.1°C
Vapour density:	No information available.
Partition coefficient: n-octanol/water:	No information available.
Viscosity:	No information available.
Evaporation rate (BuAe = 1):	No information available.
Other Information	
Volatiles (% by weight):	94
Volatile organic Compounds (VOC's):	No information available.
Other physical/chemical comments:	No additional information.

10. STABILITY AND REACTIVITY

Reactivity:	Not normally reactive.
Chemical stability:	Stable under normal conditions. May slowly decompose in air to form hazardous decomposition products. This process may be sped up by direct sunlight, heat and moisture.

Possibility of hazardous reactions:	Hazardous polymerisation does not occur
Conditions to avoid:	Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not puncture or incinerate containers.
Incompatible materials:	Water; Bases; Alkali metals; Oxidizing agents; Reducing agents.
Hazardous decomposition products:	Burning produces obnoxious and toxic fumes. In the event of fire the following can be released: Carbon oxides; Hydrogen chloride gas; Chlorine; Phosgene.

11. TOXICOLOGICAL INFORMATION

Information on Toxicological effects:

Acute toxicity:	According to the classification criteria of the European Union, this product is not considered as being an acutely toxic chemical.
Irritation:	The product is classified as dangerous in accordance with Directive 1999/45/EC. Classification: Xi - Irritant. Irritating to eyes and skin.
Corrosivity:	According to the classification criteria of the European Union, this product is not considered as being a corrosive material.
Sensitisation:	According to the classification criteria of the European Union, this product is not considered as being an allergic skin sensitiser. According to the classification criteria of the European Union, this product is not considered as being an allergic respiratory sensitiser.
Mutagenicity:	May cause heritable genetic damage. Possible risks of irreversible effects. Contains: Naphtha (petroleum) light catalytic reformed, aromatic-free; Trichloroethylene. Naphtha (petroleum), light catalytic reformed, aromatic-free may cause mutations in both reproductive (germ) cells and non-reproductive (somatic) cells, based on animal data. Trichloroethylene may cause mutations in non-reproductive (somatic) cells, based on animal data.
Carcinogenicity:	May cause cancer. Contains: Trichloroethylene; Naphtha (petroleum) light catalytic reformed, aromatic-free.
Toxicity for reproduction:	Contains no ingredient listed as toxic to reproduction.
Repeated dose toxicity:	According to the classification criteria of the European Union, this product is not expected to cause target organ toxicity through repeated doses.

Toxicological data: There is no available data for the product itself, only for the ingredients. See below for individual ingredient acute toxicity data.

Chemical name	LC50 (4hr) inh, rat	LD50	
		(Oral, rat)	(Rabbit, dermal)
Trichloroethylene	8000 ppm	4290 mg/kg	> 29,000 mg/kg
Propane	No information available.	Not applicable.	Not applicable.
Naphtha (petroleum) light catalytic reformed, aromatic-free	> 5.04 mg/L	4820 mg/kg	> 2000 mg/kg

Routes of exposure: Eye contact; Skin contact; Inhalation; Ingestion; Skin Absorption.

Effects of acute exposure: Inhalation: May cause respiratory irritation. Vapours may cause drowsiness and dizziness. Could result in pulmonary edema (fluid accumulation). Symptoms of pulmonary edema (chest pain, shortness of breath) may be delayed.

Skin contact: Direct contact will result in severe irritation. May be absorbed and cause symptoms similar to those for inhalation.

Eye contact: Direct contact will result in severe irritation.

Ingestion: May cause irritation of mouth, throat, and stomach. Ingestion of larger amounts may cause defects to the central nervous system (e.g. dizziness, headache).

Potential Chronic Health Effects: Prolonged overexposure may cause liver and kidney effects.

Other important hazards: Chronic exposure damages the brain and the central nervous system.

12. ECOLOGICAL INFORMATION

Ecotoxicity: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. No data is available on the product itself. The product contains halogenated hydrocarbons. Contains: Trichloroethylene. This product contains the following substance which may also be hazardous for the environment: Naphtha (petroleum) light catalytic reformed, aromatic-free.

The acute toxicity of Trichloroethylene is (IUCLID):

Toxicity to fish - LC50/96h/Fathead minnows = 40.7 mg/L

Toxicity to daphnia - EC50/48h/daphnia = 20.8 mg/L

The acute toxicity of Naphtha (petroleum), light catalytic reformed, aromatic-free is (IUCLID):

Toxicity to algae - EC50/72h/algae = 11 mg/L

Persistence and degradability:	The product itself has not been tested. Contains: Trichloroethylene. Trichloroethylene is not considered to be readily biodegradable.
Bioaccumulation potential:	The product itself has not been tested.
Mobility in soil:	The product itself has not been tested.
Results of PBT and vPvB assessment:	This information is not available.
Other Adverse Environmental effects:	None known.
Water contaminating class (Germany):	3 (self classified)



13. DISPOSAL CONSIDERATIONS



Waste Treatment Methods:

Handling for Disposal: Handle in accordance with good industrial hygiene and safety practice. Refer to protective measures listed in sections 7 and 8. Do not puncture or incinerate containers.

Methods of Disposal: Dispose of in accordance with the European Directives on waste and hazardous waste. Waste must be classified and labelled prior to recycling or disposal. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.

14. TRANSPORTATION INFORMATION

Regulatory Information	UN Number	UN proper shipping name	Transport hazard class(es)	Packing Group	Label
ADR/RID	UN1950	AEROSOLS	2.1	None	
EU ADR/RID Classification Code	5TF - Aerosol dispensers and receptacles, small, containing gas (gas cartridges); toxic, flammable				
EU ADR / RID Hazard Identification Number	Not applicable.				
ADR/RID Additional information	May be shipped as a limited quantity when in containers no larger than 120 mL, in packages not exceeding 30 kg gross mass.				
ICAO/IATA	UN1950	Aerosols, flammable, containing substances in Division 6.1, Packing Group III	2.1(6.1)	None	
ICAO/IATA	Refer to the appropriate Packing Instruction, prior to shipping this material. Review all				

Additional information	State and Operator Variations, prior to shipping this material.				
IMDG	UN1950	AEROSOLS	2.1	None	 
IMDG Additional information	May be shipped as a limited quantity when in containers no larger than 120 mL, in packages not exceeding 30 kg gross mass.				

Special precautions for user: Wear chemically resistant protective equipment during handling. Keep away from heat, sparks and open flame. - No smoking.

Environmental hazards: This product does not meet the criteria for an environmentally hazardous mixture, according to the IMDG Code. See Section 12 for more environmental information.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable.

15. REGULATORY INFORMATION

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

1. Substances presenting a health or environmental hazard within the meaning of Directive 67/548/EEC.
2. Classification according to European directive on classification of hazardous preparations 1999/45/EC.
3. This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.
4. In accordance with the legislation of the United Kingdom.
5. German legislation on water endangering substances VwVwS

Chemical safety assessment: A chemical safety assessment has not been carried out by the Manufacturer of this product.

16. OTHER INFORMATION

Legend:

- ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
- CAS: Chemical Abstract Services
- EC: European Community
- EEC: European Economic Community
- EINECS: European Inventory of Existing Commercial chemical Substances
- EN: European Standard

EU: European Union

HSDB: Hazardous Substances Data Bank

IBC: Intermediate Bulk Container

IATA: International Air Transport Association

ICAO: International Civil Aviation Organisation

IMDG: International Maritime Dangerous Goods

IUCLID: International Uniform Chemical Information Database

LC: Lethal Concentration

LD: Lethal Dose

OEL: National occupational exposure limits

RID: Regulations concerning the International Carriage of Dangerous Goods by Rail

RTECS: Registry of Toxic Effects of Chemical Substances

SDS: Safety Data Sheet

STEL: Short Term Exposure Limit

TWA: Time Weighted Average

WEL: Workplace Exposure Limit

Information Source:

1. Material Safety Data Sheet from manufacturer.
2. Canadian Centre for Occupational Health and Safety, CCInfoWeb Databases, 2011 (Chempendium, RTECs, HSDB, INCHEM).
3. European Chemicals Bureau, Existing Chemicals Work Area, EINECS Information System, 2011.
4. European Chemicals Agency, Classification Legislation, 2011.

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R-Phrases (Full text):
R65 - Harmful: may cause lung damage if swallowed.
R66 - Repeated exposure may cause skin dryness or cracking.
R68 - Possible risk of irreversible effects.

Other special considerations for handling: Provide adequate information, instruction and training for operators.

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