

## SAFETY DATA SHEET

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**Section 1: Identification**

**Supplier:** *TRANSCHEM COATINGS* **Date Prepared:** 02/19/2019  
**Street Address:** 1680 Miller Ave. Revision: 1  
Los Angeles CA. 90063

**Product Name:** Ceramic PTFE Polyurethane **Information:** 213-747-7725  
(Component A)  
**Color:** Gray **Chemtrec Emergency No.:** 800-424-9300  
**Product Code:** SLICKOTE M16-A  
**Chemical Family:** PTFE/ Polyester  
**Chemical Formula:** Mixture  
**Product Class:** PTFE Solid Film Lubricant /  
Ceramic Polyurethane Coating

Legend: N.A. – Not Applicable, N.E. – Not Established, N.D. – Not Determined

**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:** FLAMMABLE LIQUIDS - Category 3  
ACUTE TOXICITY (oral) - Category 4  
ACUTE TOXICITY (inhalation) - Category 4  
SKIN CORROSION/IRRITATION - Category 2  
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A  
CARCINOGENICITY - Category 1A  
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 2  
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 C

**GHS label elements****Hazard Pictograms:****Signal word:** Danger

**Hazard statements:** Flammable liquid and vapor.  
Harmful if swallowed or if inhaled.  
Causes serious eye irritation.  
Causes skin irritation.  
May cause cancer.  
May cause respiratory irritation.  
May cause damage to organs through prolonged or repeated exposure.

## Section 2: Hazards Identification

### Precautionary statements

**Prevention:** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Wear protective gloves. Wear eye or face protection. 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 victim to fresh air and keep at rest in a position 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. 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:** Sanding and grinding dusts may be harmful if inhaled. 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. NTP, IARC and OSHA have classified chromium (+6) compounds as carcinogenic. 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.

## Section 3: Composition / information on ingredients

Ingredient Name	Percentage (%)	CAS Number
Polyester Polyol	55 – 58	Proprietary
Methyl Amyl Ketone (2-Heptanone)	5 – 8	110-43-0
n-Butyl Acetate (SARA III)	5 – 8	123-86-4
Acetone (SARAIII)	5 – 8	67-64-1
P-Chlorobenzotrifluoride	4 – 6	98-56-6
Methyl Ethyl Ketone	3 – 4	78-93-3
2-4 Pentanedione	<=1 %	123-54-6
Non-Hazardous Ingredients	4 – 7	-----

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:** Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.

**Inhalation:** 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.

**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 symptoms/effects, acute and delayed

#### Potential acute health effects

**Eye contact:** Causes serious eye irritation.

**Inhalation:** Harmful if inhaled. May cause respiratory irritation. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure

**Skin Contact:** Causes skin irritation. Defatting to the skin.

**Ingestion:** Harmful if swallowed. Irritating to mouth, throat and stomach.

### Over-exposure signs/symptoms

**Eye contact:** Adverse symptoms may include the following:  
pain or irritation  
watering  
redness

**Inhalation:** Adverse symptoms may include the following:  
respiratory tract irritation  
coughing

**Skin contact:** Adverse symptoms may include the following:  
irritation  
redness  
dryness  
cracking

**Ingestion:** No specific data.

### Indication of immediate medical attention and special treatment needed, if necessary

**Notes to physician:** In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

## Section 4: First aid measures (Continued)

**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. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

## Section 5: Fire-fighting measures

### Extinguishing Media

**Suitable extinguishing media:** Use cry chemical, carbon dioxide, foam or water.

**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
- nitrogen oxides
- halogenated compounds
- metal oxide/oxides

**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 nonemergency 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

## Section 6: Accidental release measures (Continued)

**Small spill:** Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

**Large spill:** Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## Section 7: Handling and storage

### Precautions for safe handling

**Protective measures:** Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. 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:** Ingestion of product or cured coating may be harmful. 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.

**Advise on general occupational hygiene:** 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 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: 46°C (115°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.

<b>Section 8: Exposure controls / personal protection</b>
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**Control parameters****Occupational exposure limits**

Ingredient Name	Exposure limits
Polyester Polyol	NIOSH (RTECS) N.E. OSHA PEL: N.E. ACGIH TLV N.E.
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Methyl Amyl Ketone (2-Heptanone)	NIOSH (RTECS) MJ5075000 OSHA PEL: 100 ppm ACGIH TLV 50 ppm
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n-Butyl Acetate (SARA III)	NIOSH (RTECS) AF7350000 OSHA PEL: 150 ppm ACGIH TLV 150 ppm
-----	-----
Acetone (SARA III)	NIOSH (RTECS) AL3150000 OSHA PEL: 100 ppm/ 150 STEL ACGIH TLV 100 ppm/ 150 STEL
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P-Chlorobenzotrifluoride	NIOSH (RTECS) N.E. OSHA PEL: N.E. ACGIH TLV N.E.
-----	-----
Methyl Ethyl Ketone	NIOSH (RTECS) EL6475000 OSHA PEL: 200 ppm ACGIH TLV 200 ppm ACGIH STEL 300 ppm
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2-4 Pentanedione	NIOSH (RTECS) N.E. OSHA PEL: N.E. ACGIH TLV N.E.

Consult local authorities for acceptable exposure limits.

**Recommended monitoring procedures:** 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.

**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:** 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.

## Section 8: Exposure controls / personal protection (Continued)

### Individual protection measures

**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:** Chemical splash goggles.

### Skin protection

**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 antistatic 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:** 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.

## Section 9: Physical and chemical properties

Physical Form	: Liquid
Color	: Gray
Odor	: Solvent
PH	: N.A.
Boiling Point	: N.D.
Flash Point	: 73°F (23°C)
Melting/Freezing Point	: N.D.
Water Content	: None
Solubility in Water	: Insoluble
Specific Gravity	: Approx 1.28
Bulk Density	: N.D.
% Volatile by Weight	: Approx. 20 to 25%
MIXED V.O.C.	: 2.8 Lbs/Gal (340 g/L) (less exempts)- (AQMD Rule 1124)
Vapor Density	: Heavier than air
Evaporation Rate	: 1.2 x n-butyl acetate

### Section 9: Physical and chemical properties (Continued)

#### Flammable Limits:

Upper Explosive Limit (UEL) (%): 1.7

Lower Explosive Limit (LEL) (%): N/A

Auto-Ignition Temperature: Not established

### 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

#### PRODUCT TOXICITY INFORMATION

Likely Routes of Exposure: Skin, Eyes, Oral, Respiratory System.

#### ACUTE TOXICITY DATA

Oral	rat	Acute LD50	>2000 mg/kg
Dermal	rabbit	Acute LD50	>2000 mg/kg
Inhalation	rat	Acute LC50 4 hr	>5 mg/l (Dust/Mist)

#### LOCAL EFFECTS ON SKIN AND EYE

Acute Irritation	dermal	No irritating
Acute Irritation	eye	No irritating

#### ALLERGIC SENSITIZATION

Sensitization	skin	Not sensitizing
Sensitization	respiratory	No data

#### GENOTOXICITY

##### Assays for Gene Mutations

Ames Salmonella Assay	No data
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#### OTHER INFORMATION

The product toxicity information above has been estimated.



**Section 11: Toxicological information (Continued)**

## HAZARDOUS INGREDIENT TOXICITY DATA

Butyl acetate (CAS# 123-86-4) has acute oral (rat) and dermal (rabbit) LD50 values of 10,768 mg/kg and >17,600 mg/kg, respectively (RTECS). The acute 4-hr inhalation (rat) LC50 = >2000 ppm (9.5 mg/L)(NTP). Direct contact with this material may cause moderate eye and skin irritation. In humans, exposure concentrations of 200-300 ppm resulted in slight eye and nose irritation while short exposure to 3300 ppm caused extreme irritation of the eyes and nose (HSDB). Overexposure to solvent vapors may cause irritation of the eyes, nose, and throat. Severe inhalation overexposure may cause weakness, drowsiness, and unconsciousness. Prolonged dermal exposure may produce irritation of the skin. This material did not cause mutagenic activity when tested in the bacterial mutagenicity assay. When tested for reproductive effects in rats, fetotoxicity (stunted growth) and abnormalities of the musculoskeletal system was noted at an exposure concentration of 1500 ppm/7h/day during days 7-16 of pregnancy (HSDB).

**Section 12: Ecological information**

**Ecological Information:** No Information.

**Section 13: Disposal considerations**

**Disposal Information:** Dispose of waste in accordance with federal, state, and local environmental regulations. Empty containers must be handled with care, to product residue. Do not incinerate closed containers.

**Section 14: Transport information**

**DOT ID#:** UN1263

**DOT proper shipping name:** Paint or Paint Related Material

**DOT Label:** Flammable Liquid

**DOT Class:** 3

**IATA ID#:** UN1263

**IATA proper shipping name:** Paint or Paint Related Material

**IATA Label:** Flammable Liquid

**IATA Class:** 3

**IATA Packing Instructions:** 355

**Section 15: Regulatory information****CERCLA – SARA Hazard Category**

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is Considered, under applicable definitions, to meet the following categories: IMMEDIATE HEALTH HAZARD, CHRONIC HEALTH HAZARD, FIRE HAZARD.

**SARA Section 313:**

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

NONE

**Toxic Substances Control Act:**

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

<b>Section 15: Regulatory information (Continued)</b>
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<u>Component</u>	<u>CAS Number</u>
2-4 PENTANEDIONE	123-54-6

**U.S. State Regulations: As follows -****New Jersey Right-to-Know:**

The following materials are non-hazardous, but are among the top five components in this product.

<u>Component</u>	<u>CAS Number</u>
Polyester Resin	Trade Secret

**Pennsylvania Right-to-Know:**

The following non-hazardous ingredients are present in the product at greater than 3%.

<u>Component</u>	<u>CAS Number</u>
Polyester Resin	Trade Secret

**California Proposition 65:**

Warning: The following ingredients present in the product are known to the state of California to cause Cancer:

NONE

<b>Section 16: Other information</b>
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HMIS RATINGS:			
Health	Flammability	Reactivity	Personal Protection
2	3	0	G
NFPA RATINGS:			
Health	Flammability	Instability	Personal Protection
2	3	0	G

**Disclaimer:** The information contained on this MSDS has been checked and should be accurate. However, it is the responsibility of the user to comply with all Federal, State, and Local laws and regulations.