MATERIAL SAFETY DATA SHEET
TUF-GLIDE™ PASTE

SECTION I – PRODUCT INFORMATION

Use:	Pipe Thread Sealant
Distributor's name:	Allied Rubber & Gasket Company 2610 Commerce Way Vista, Ca 92081
In case of emergency:	(800) 424-9300
For information call:	(800) 854-1015
Date prepared:	1/22/2014
Product name:	Tuf-Glide Paste

SECTION II – HAZARDS IDENTIFICATION

Emergency Overview

Possible cancer hazard
Acute Toxicity

Appearance Off white **Physical State** Liquid, Gel. **Odor** Sweet, Corn syrup-like

Potential Health Effects

Acute Toxicity

Eyes	May cause slight irritation.
Skin	No known effect based on information supplied.
Inhalation	None known.
Ingestion	Not an expected route of exposure. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Chronic Effects	Titanium dioxide has been classified by the International Agency for Research on Cancer(IARC) as possibly carcinogenic to humans (Group 2B) by inhalation.
Aggravated Medical Condition	None known.
Environmental Hazard	Environmental Hazard See Section 12 for additional Ecological Information

SECTION III –COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Titanium dioxide	13463-67-7	1-5

SECTION IV –FIRST AID MEASURES

Eye Contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Skin Contact Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes.

Inhalation Move to fresh air.

Ingestion Clean mouth with water and afterwards drink plenty of water.

Notes to Physician Notes to Physician Treat symptomatically.

SECTION V – FIRE-FIGHTING MEASURES

Flammable Properties Not flammable.

Flash Point 320 °F / > =160 °C
Flashpoint Method Open cup

Suitable Extinguishing Media Dry powder. Carbon dioxide (CO 2). Foam. Water spray. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media Do not use a solid water stream as it may scatter and spread fire.

Explosion Data

Sensitivity to Mechanical Impact None
Sensitivity to Static Discharge None

Specific Hazards Arising from theChemical Burning produces obnoxious and toxic fumes. Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke)
Halogenated compounds

Protective Equipment and Precautions for Firefighters As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

SECTION VI–ACCIDENTAL RELEASE MEASURES

Personal Precautions	Use personal protective equipment.
Environmental Precautions	Prevent further leakage or spillage if safe to do so. Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.
Methods for Containment	Prevent further leakage or spillage if safe to do so.
Methods for Cleaning Up	Take up mechanically and collect in suitable container for disposal.

SECTION VII– HANDLING AND STORAGE

Handling Avoid dust formation. Do not breathe vapors/dust. Wear personal protective equipment. Ensure adequate ventilation. Wash thoroughly after handling. Fine dust dispersed in air may ignite. Keep away from open flames, hot surfaces and sources of ignition.

Storage Keep container tightly closed in a dry and well-ventilated place.

SECTION VIII–EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Titanium dioxide 13463-67-7	TWA: 10 mg/m3	TWA: 15 mg/m3 total dust (vacated) TWA: 10 mg/m3 total dust	IDLH: 5000 mg/m3

OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits. ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value. NIOSH IDLH: Immediately Dangerous to Life or Health.

Other Exposure Guidelines Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

Engineering Measures Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Eye/Face Protection Safety glasses with side-shields.

Skin and Body Protection Long sleeved clothing. Protective gloves.

Respiratory Protection None required under normal usage. If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

Hygiene Measures When using, do not eat, drink or smoke. Remove and wash contaminated clothing before re-use.

SECTION IX–PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Off white.
Odor Threshold	No information available.
pH	Neutral
Odor	Sweet, Corn syrup-like
Autoignition Temperature	> 260 °C / 500 °F
Boiling Point/Boiling Range	<260 °C / 500 °F
Melting Point/Range	149 °C / 300 °F
Physical State	Liquid Gel
Flash Point	320 °F / > =160 °C
Flashpoint Method	Open cup

Decomposition Temperature	No information available.
Flammability Limits in Air	No information available.
Physical State	Liquid Gel
Flash Point	320 °F / > =160 °C
Flashpoint Method	Open cup
Decomposition Temperature	No information available.
Flammability Limits in Air	No information available.

Water Solubility	Insoluble in cold water, hot water	**Solubility**	No information available.
Evaporation Rate	No information available.	**Vapor Pressure**	<0.01 kPa (<0.08 mm Hg) (@ 20°C)
Vapor Density	>5 (air = 1)		

SECTION X–STABILITY AND REACTIVITY

Stability	Stable under recommended storage conditions. Decomposes in contact with water.
Incompatible Products	Strong oxidizing agents.
Conditions to Avoid	Dust formation. Heat, flames and sparks.
Hazardous Decomposition Products	None known based on information supplied.
Hazardous Polymerization	Hazardous polymerization does not occur.

SECTION XI– TOXICOLOGICAL INFORMATION

Acute Toxicity Product Information	Product does not present an acute toxicity hazard based on known or supplied information.
Inhalation	May cause irritation of respiratory tract.
Eye Contact	May cause slight irritation.
Skin Contact	No known effect based on information supplied
Ingestion	Not an expected route of exposure. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Titanium dioxide	10000 mk/kg (RAT)		>6820 mg/m^3

Chronic Toxicity

Chronic Toxicity Titanium dioxide has been classified by the International Agency for Research on Cancer(IARC) as possibly carcinogenic to humans (Group 2B) by inhalation.

Carcinogenicity This product contains one or more substances which are classified by IARC as carcinogenic to humans (Group I), probably carcinogenic to humans (Group 2A) or possibly carcinogenic to humans (Group 2B).

Chemical Name	ACGIH	IARC	NTP	OSHA
Titanium dioxide		Group 2B		X

IARC: (International Agency for Research on Cancer)
Group 2B - Possibly Carcinogenic to Humans
OSHA: (Occupational Safety & Health Administration)
X - Present

Sensitization None known.

Mutagenic Effects None known.

Reproductive Toxicity None known.

Developmental Toxicity None known.

Target Organ Effects None known.

SECTION XII– ECOLOGICAL INFORMATION

Ecotoxicity
The environmental impact of this product has not been fully investigated.

SECTION XIII– DISPOSAL CONSIDERATIONS

Waste Disposal Methods Dispose of in accordance with federal, state, and local regulations

Contaminated Packaging Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION XIV–TRANSPORT INFORMATION

DOT Not regulated
TDG Not regulated
MEX Not regulated

SECTION XV–REGULATORY INFORMATION

International Inventories

TSCA	Complies
DSL	Complies
EINECS	Complies
ENCS	Not determined
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

Legend

TSCA -	United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL -	Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS -	European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances
ENCS -	Japan Existing and New Chemical Substances
IECSC -	China Inventory of Existing Chemical Substances
KECL -	Korean Existing and Evaluated Chemical Substances
PICCS -	Philippines Inventory of Chemicals and Chemical Substances
AICS -	Australian Inventory of Chemical Substances

U.S. Federal Regulations

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

U.S. State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals:

Chemical Name	CAS-No	California Prop. 65
Titanium dioxide	13463-67-7	Carcinogen

U.S. State Right-to-Know Regulations

"X" designates that the ingredients are listed on the state right to know list.

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Illinois	Rhode Island
Talc	X	X	X		X
Kaolin	X	X	X		X
Ptfe			X		X
Mica	X	X	X		X
Titanium dioxide	X	X	X		X

International Regulations

Mexico - Grade Slight risk, Grade 1

Chemical Name	Carcinogen Status	Exposure Limits
Talc		Mexico: TWA= 2 mg/m3
Kaolin		Mexico: TWA= 10 mg/m3 Mexico: STEL= 20 mg/m3
Mica		Mexico: TWA= 3 mg/m3
Titanium dioxide		Mexico: TWA= 10 mg/m3 Mexico: STEL= 20 mg/m3

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class

Non-controlled

SECTION XVI– OTHER INFORMATION

Prepared By ARGCO Inc.
2610 Commerce Way
Vista, CA 92081
(800) 854-1015

Issuing Date January 22, 2014
Revision Date January 22, 2014
Revision Note Release

General Disclaimer

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.