

SAFETY DATA SHEET

Revision Date 10-August-2015

Version 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier	
Product Name	F-2409 TSGM-15045

UN/ID No Product Code

 Recommended Use of the Chemical and Restrictions on Use

 Recommended Use
 Solvent cleaner

UN1710

F-2409

Details of the Supplier of the Safety Data Sheet Supplier Address Delta Foremost Chemical Corporation 3915 Air Park St. Memphis, Tennessee 38118

Emergency Telephone Number Company Phone Number Emergency Telephone

(901) 363-4340 INFOTRAC 1-352-323-3500 (International) 1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Classification

Flammable Liquids	Category 4
Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2 A
Reproductive toxicity	Category 1B
Specific target organ toxicity (single exposure) (Respiratory system)	Category 3

Signal Word DANGER

Hazard Statements

Combustible liquid. Causes skin irritation. Causes serious eye irritation May cause respiratory irritation. May damage fertility or the unborn child.



Appearance Amber gel

Physical State Liquid

Odor Solvents

Precautionary Statements - Prevention

Obtain special instructions before use Do not handle until all safety precautions have been read and understood Keep away from heat/ sparks/ open flames/ hot surfaces. - no smoking Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves, protective clothing, eye protection, and face protection.

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Get medical attention if irritation occurs IF ON SKIN: Wash with plenty of soap and water If skin irritation persists: Get medical advice/attention Take off contaminated clothing and wash it before reuse IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison control center or doctor if you feel unwell. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician Do NOT induce vomiting

Precautionary Statements - Storage

Store locked up Store in a well-ventilated place. Keep container tightly closed

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards Not Otherwise Classified (HNOC)

May be harmful if swallowed

Other Hazards

Toxic to aquatic life with long lasting effects Toxic to aquatic life

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
N-Methyl-2-pyrrolidone	872-50-4	Proprietary

Product contains a proprietary mixture of ingredients.

4. FIRST AID MEASURES

First Aid Measures	
General Advice	If exposed or concerned: Get medical advice/attention. Provide this SDS to medical personnel for treatment.
Eye Contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Consult a physician.
Skin Contact	Flush with water while removing contaminated clothing and shoes before reuse. Consult a physician.
Inhalation	Remove victim to fresh air and provide oxygen if breathing is difficult. Give artificial respiration if not breathing. Consult a physician.

Ingestion

Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Consult a physician immediately.

Most Important Symptoms and Effects, both Acute and Delayed

The most important known symptoms and effects are described in Section 2.2 or Section 11.

Indication of any Immediate Medical Attention and Special Treatment Needed

No data available

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Foam, carbon dioxide or dry chemical extinguisher, or water. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media Not determined.

Specific Hazards Arising from the Chemical

Carbon oxides, Nitrogen oxides.

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.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Personal PrecautionsWear protective clothing as described in Section 8 of this safety data sheet. Avoid contact
with skin and eyes and inhalation of vapors. Ensure adequate ventilation. Remove
sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to
form explosive concentrations. Vapors can accumulate in low areas.

Methods and Material for Containment and Cleaning Up

Methods for Containment	Contain spillage, then collect with an electrically protected vacuum cleaner or by wet- brushing and place in container for disposal according to local regulations. Keep in suitable, closed containers for disposal.
Methods for Cleaning Up	Sweep up absorbed material and shovel into suitable containers for disposal. Discard any product, residue, disposable container or liner in full compliance with federal, state, and local regulations. For waste disposal, see section 13 of the SDS.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Advice on Safe Handling Handle in accordance with good industrial hygiene and safety practice. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protection recommended in Section 8. Wear eye/face protection. Avoid contact with skin, eyes or clothing. Avoid breathing vapors. Avoid breathing mists. Use only in well-ventilated areas. Keep away from sources of ignition.-No smoking. Take measures to prevent the build up of electrostatic charge.

Conditions for Safe Storage, Including any Incompatibilities

Storage Conditions	Keep container tightly closed and store in a cool, dry and well-ventilated place. Keep in properly labeled containers. Store locked up.
Incompatible Materials	Caustic soda, caustic potash, liquid oxygen or other oxidizing materials, alkali metals.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
N-Methyl-2-Pyrrolidone	TWA: 100mg/l	TWA: 10 ppm	
872-50-4	_		

Appropriate Engineering Controls

Engineering Controls	Ventilation must be adequate to maintain the ambient workplace atmosphere below the exposure limit(s) outlined in the SDS.
Individual Protection Measures, s	such as Personal Protective Equipment
Eye/Face Protection	Goggles or face shield.
Skin and Body Protection	Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact. Wear protective Neoprene™ gloves, Rubber gloves.
Respiratory Protection	Use self-contained breathing apparatus if there is a heavy vapor or risk assessment shows respirators are appropriate. Type ABEK or US multipurpose respirator cartridges are required.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice. Wash hands after use and wash contaminated clothes before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State Appearance Color	Liquid Gelled liquid Amber	Odor Odor Threshold	Solvent Not determined
Property pH Melting Point/Freezing Point Boiling Point/Boiling Range Flash Point Evaporation Rate Flammability (Solid, Gas) Upper Flammability Limits Lower Flammability Limit Vapor Pressure Vapor Density Specific Gravity Water Solubility Solubility in Other Solvents Partition Coefficient Autoignition Temperature Decomposition Temperature	ValuesNot determinedNot determined $202 \ ^{\circ}C / 396 \ ^{\circ}F$ $91 \ ^{\circ}C$ No data availableNot determined $9.5\%(V)$ $1.3\%(V)$ Not established $3.42 - (Air = 1)$ 1.028 Insoluble in waterNot determinedlog Pow: -0.46Not determinedNot determinedNot determinedNot determinedNot determinedNot determinedNot determined	<u>Remarks • Method</u> (1=Water)	

Kinematic Viscosity	Not determined
Dynamic Viscosity	Not determined
Explosive Properties	Not determined
Oxidizing Properties	Not determined

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions.

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous Polymerization Hazardous polymerization does not occur.

Conditions to Avoid

Avoid heat, sparks, open flames and other ignition sources.

Incompatible Materials

Strong acids, strong oxidizing agents, strong reducing agents.

Hazardous Decomposition Products

Carbon oxides, nitrogen oxides.

11. TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Product Information	
Eye Contact	Causes serious eye irritation.
Skin Contact	Causes skin irritation.
Inhalation	Harmful if inhaled.
Ingestion	May be harmful if swallowed.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
N-Methyl-2-Pyrrolidone	= 3914 mg/kg (Rat)	> 8 g/kg (Rabbit)	= 5100 ppm (Rat)4 h

Information on Physical, Chemical and Toxicological Effects

Symptoms Please see section 4 of this SDS for symptoms.

Delayed and Immediate Effects as well as Chronic Effects from Short and Long-term Exposure

Germ Cell Mutagenicity	No data available.
Carcinogenicity	No component of this product present at levels greater than or equal to 0.1% is identified as a probable, possible, or confirmed human carcinogen by IARC, ACGIH, NTP, or OSHA.

ACGIH (American Conference of Govern	mental Industrial Hygienists)
A2 - Suspected Human Carcinogen	
A3 - Animal Carcinogen	
IARC (International Agency for Research	on Cancer)
Group 1 - Carcinogenic to Humans	
Group 2A - Probably Carcinogenic to Huma	ns
STOT - Single Exposure	May cause respiratory irritation. May cause drowsiness or dizziness.
Chronic Toxicity	No data available.
Aspiration Hazard	No data available.
Reproductive Toxicity	May harm the unborn child.
Numerical Measures of Toxicity	-
Not determined	

12. ECOLOGICAL INFORMATION

Ecotoxicity

Toxic to aquatic organisms. Toxic to aquatic life with long lasting effects.

Component Information

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
N-Methyl-2-Pyrrolidone		LC 50 - Other fish - 4000mg/l - 96 h	LC50 - Bacteria - >9000mg/l	EC50 - Daphnia magna - >1000mg/l - 24 h
		LC 50 - Leuciscus idus - > 500mg/l - 96 h		-

Persistence and Degradability

90% - Readily biodegradable

Bioaccumulation

Not determined

Mobility

No data available <u>Other Adverse Effects</u> Not determined

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes Disposal should be in accordance with applicable regional, national and local laws and regulations. This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material in accordance with local, state, and federal regulations.

Contaminated Packaging Dispose of as unused product.

14. TRANSPORT INFORMATION

Note

Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

DOT

UN/ID No	NA 1993
Proper Shipping Name	Combustible liquid, n.o.s. (N-methyl-2-pyrrolidone)
Hazard Class	NA
Packing Group	III

<u>IATA</u>

Not dangerous goods

IMDG

Not dangerous goods

15. REGULATORY INFORMATION

International Inventories

Not Determined

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 Chemical Substances/European 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

US Federal Regulations

SARA 311/312 Hazards

Fire Hazard, Acute Health Hazard, Chronic Health Hazard **SARA 313**

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
N-methyl-2-pyrollidone	872-50-4	Proprietary	0.1

US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals.

Chemical Name	California Proposition 65
N-Methyl-2-Pyrrolidone	Reproductive toxin
872-50-4	

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
N-Methyl-2-Pyrrolidone	Х	Х	Х
872-50-4			

16. OTHER INFORMATION				
<u>NFPA</u>	Health Hazards	Flammability	Instability	Special Hazards
	2	2	0	Not determined
<u>HMIS</u>	Health Hazards	Flammability	Physical Hazards	Personal Protection
	2	2	0	Not determined
Revision Date Revision Note	10-August-2015 New product			

Disclaimer

The information provided in this Safety Data Sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text.

End of Safety Data Sheet