



FORMASIL 45/TPD/209KG
Polydimethylsiloxane Emulsion

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Manufactured By: Momentive Performance Materials
3500 South State Route 2
FRIENDLY WV 26146

Revised: 09/26/2007
Preparer: PRODUCT STEWARDSHIP COMPLIANCE AND STANDARDS
CHEMTREC 1-800-424-9300

Chemical Family/Use: Silicone emulsion
Formula: Polydimethylsiloxane emulsion

HMIS

Flammability: 0 Reactivity: 0 Health: 0

NFPA

Flammability: 0 Reactivity: 0 Health: 0

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Normal precautions common to safe manufacturing practice should be followed in handling and storage.

Form: Liquid Color: Opaque white Odor: Mild

POTENTIAL HEALTH EFFECTS

INGESTION

No evidence of harmful effects from available information.

SKIN

No evidence of harmful effects from available information.

INHALATION

Short-term harmful health effects are not expected from vapor generated at ambient temperature.

EYES

May cause slight irritation. May cause the following effects: - swelling of the conjunctivae

MEDICAL CONDITIONS AGGRAVATED

A knowledge of the available toxicology information and of the physical and chemical properties of the material suggests that overexposure is unlikely to aggravate existing medical conditions.

SUBCHRONIC (TARGET ORGAN)

None known.

CHRONIC EFFECTS / CARCINOGENICITY

This product or one of its ingredients present at 0.1% or more is NOT listed as a carcinogen



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or suspected carcinogen by NTP, IARC, or OSHA.

ROUTES OF EXPOSURE

No anticipated routes of exposure.

3. COMPOSITION / INFORMATION ON INGREDIENTS

<u>PRODUCT COMPOSITION</u>	<u>CAS REG NO.</u>	<u>WGT. %</u>
<u>A. HAZARDOUS</u>		
Alcohol ethoxylate	Trade secret	1 - 5 %
Alcohol ethoxylate	Trade secret	1 - 5 %
<u>B. NON-HAZARDOUS</u>		
Water	7732-18-5	30 - 60 %
Siloxanes and Silicones, di-me	63148-62-9	30 - 60 %

4. FIRST AID MEASURES

INGESTION

No emergency care anticipated.

SKIN

Wash skin with soap and water.

INHALATION

No emergency care anticipated.

EYES

Flush eyes thoroughly with water for several minutes.

NOTE TO PHYSICIAN

Treatment is symptomatic and supportive.

5. FIRE-FIGHTING MEASURES

FLASH POINT:	None (aqueous system)
FLAMMABLE LIMITS IN AIR - LOWER (%):	Not available
FLAMMABLE LIMITS IN AIR - UPPER (%):	Not available

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SENSITIVITY TO MECHANICAL IMPACT: No

SENSITIVITY TO STATIC DISCHARGE
Sensitivity to static discharge is not expected.

EXTINGUISHING MEDIA
All standard extinguishing agents are suitable.

SPECIAL FIRE FIGHTING PROCEDURES
Firefighters must wear NIOSH/MSHA approved positive pressure self-contained breathing apparatus with full face mask and full protective clothing.

6. ACCIDENTAL RELEASE MEASURES

ACTION TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED
Wipe, scrape or soak up in an inert material and put in a container for disposal. Wash walking surfaces with detergent and water to reduce slipping hazard. Wear proper protective equipment as specified in the protective equipment section.

7. HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE
Avoid contact with skin and eyes. Keep away from children. Attention: Not for injection into humans. May generate formaldehyde at temperatures greater than 150 C (300 F). See Section 10 of MSDS for details.

STORAGE
Keep container tightly closed. Keep from freezing.

FURTHER INFORMATION ON STORAGE CONDITIONS
Recommended storage between 35F (2C) and 80F (26 C).

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS
Eyewash stations; Showers; Ventilation and other forms of engineering controls are preferred for controlling exposures. Respiratory protection may be needed for non-routine or emergency situations.

RESPIRATORY PROTECTION
May be needed if product is used in a confined or poorly ventilated area. If exposure limits are

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exceeded or respiratory irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Supplied air respirators may be required for non-routine or emergency situations. Respiratory protection must be provided in accordance with OSHA regulations (see 29CFR 1910.134).

PROTECTIVE GLOVES

Impermeable or chemical resistant gloves.

EYE AND FACE PROTECTION

Safety glasses

OTHER PROTECTIVE EQUIPMENT

Wear suitable protective clothing and eye/face protection.

Exposure Guidelines

<u>Component</u>	<u>CAS RN</u>	<u>Source</u>	<u>Value</u>
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Absence of values indicates none found

PEL - OSHA Permissible Exposure Limit; TLV - ACGIH Threshold Limit Value; TWA - Time Weighted Average

OSHA revoked the Final Rule Limits of January 19, 1989 in response to the 11th Circuit Court of Appeals decision (AFL-CIO v. OSHA) effective June 30, 1993. See 29 CFR 1910.1000 (58 FR 35338).

9. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT - C & F:	> 100 °C; > 212 °F; Mixture
VAPOR PRESSURE (20 C) (MM HG):	12; (approximately)
VAPOR DENSITY (AIR=1):	Heavier than air
FREEZING POINT:	< 0 °C; < 32 °F
MELTING POINT:	< 0 °C; < 32 °F
PHYSICAL STATE:	Liquid
ODOR:	Mild
COLOR:	Opaque white
EVAPORATION RATE (BUTYL ACETATE=1):	< 1
DENSITY:	0.9900 g/cm ³
VOLATILE ORGANIC CONTENT (VOL):	Not determined
VOC EXCL. H₂O & EXEMPTS (G/L):	7

10. STABILITY AND REACTIVITY

STABILITY

Stable.

HAZARDOUS POLYMERIZATION

Will not occur.



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HAZARDOUS THERMAL DECOMPOSITION / COMBUSTION PRODUCTS

After evaporation of water, residue can burn to produce: Oxides of carbon.; Oxides of silicon.; Formaldehyde.; Carbon monoxide is highly toxic if inhaled; carbon dioxide in sufficient concentrations can act as an asphyxiant.; Acute overexposure to the products of combustion may result in irritation of the respiratory tract.; This product contains methylpolysiloxanes which can generate formaldehyde at approximately 300 degrees Fahrenheit (150°C) and above, in atmospheres which contain oxygen. Formaldehyde is a skin and respiratory sensitizer, eye and throat irritant, acute toxicant, and potential cancer hazard. A MSDS for formaldehyde is available from Momentive.

INCOMPATIBILITY (MATERIALS TO AVOID)

None currently known.

CONDITIONS TO AVOID

None known.

11. TOXICOLOGICAL INFORMATION

OTHER EFFECTS OF OVEREXPOSURE

No adverse effects anticipated from available information.

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGY

All available ecological data have been taken into account for the development of the hazard and precautionary information contained in this Safety Data Sheet.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD

Disposal should be made in accordance with federal, state and local regulations.

14. TRANSPORT INFORMATION

Further Information:

This product is not regarded as dangerous goods according to the national and international regulations on the transport of dangerous goods.

15. REGULATORY INFORMATION



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Inventories

Australia Inventory of Chemical Substances (AICS)	y (Positive listing)
Canada DSL Inventory	y (Positive listing)
EU list of existing chemical substances	y (Positive listing)
Japan Inventory of Existing & New Chemical Substances (ENCS)	y (Positive listing)
China Inventory of Existing Chemical Substances	y (Positive listing)
Korea Existing Chemicals Inventory (KECI)	y (Positive listing)
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	y (Positive listing)
TSCA list	y (Positive listing)

For inventories that are marked as quantity restricted or special cases, please contact Momentive.

US Regulatory Information

SARA (311,312) HAZARD CLASS
No SARA Hazards

SARA (313) CHEMICALS

Canadian Regulatory Information

Other

SCHDLE B/HTSUS: 3910.00.0000 Silicones in primary forms

ECCN: EAR99

CALIFORNIA PROPOSITION 65

This product does not contain any chemicals known to State of California to cause cancer, birth, or any other reproductive defects.

16. OTHER INFORMATION

OTHER

These data are offered in good faith as typical values and not as product specifications. No warranty, either expressed or implied, is made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these



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recommendations in the specific context of the intended use and determine whether they are appropriate., C = ceiling limit NEGL = negligible EST = estimated NF = none found
NA = not applicable UNKN = unknown NE = none established REC = recommended ND = none determined V = recommended by vendor SKN = skin TS = trade secret R = recommended MST = mist NT = not tested STEL = short term exposure limit ppm = parts per million ppb = parts per billion By-product= reaction by-product, TSCA inventory status not required under 40 CFR part 720.30(h-2).