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MATERIAL SAFETY DATA SHEET

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1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION

Tradename:
3M(TM)POLYOLEFIN ADHESION PROMOTER AEROSOL PN 05917

3M Product ID:
GS-2000-3152-3 GS-2000-3153-1 GS-2000-3154-9
GS-2000-3159-8

2 COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient name and classification	CAS number	Percentage
TOLUENE	108-88-3	70.0 - 80.0
EU Hazard Symbols and Risk Phrases: EU - Adaptation 29 (F,Xi, Xn; R:11-38-48/20-Repr.Cat.3;63-65-67)		
PROPANE	74-98-6	15.0 - 25.0
EU Hazard Symbols and Risk Phrases: EU - Adaptation 21 (F+; R:12)		
BUTANE	106-97-8	3 - 8
EU Hazard Symbols and Risk Phrases: EU - Adaptation 21 (F+; R:12)		
ISOBUTANE (CONTAINING <0.1% BUTADIENE)	75-28-5	1 - 5
EU Hazard Symbols and Risk Phrases: EU - Adaptation 21 (F+; R:12)		
CHLORINATED POLYOLEFIN	---	1 - 5
BENZENE	71-43-2	Less Than 0.1
Regulatory Lists: IARC(Group 1) NTPCARCIN(Known human carcinogen)		
EU Hazard Symbols and Risk Phrases: EU - Adaptation 29 (F,Xi, T; R:11-36-38-Carc.Cat.1;45-Muta.Cat.2;46-48/23-48/24-48/25-65)		

3 HAZARDS IDENTIFICATION

Critical hazards:
Extremely flammable. Harmful. Harmful: Danger of serious damage to health by prolonged exposure through inhalation. Vapours may cause drowsiness and dizziness. Irritating to skin. Possible risk of harm to the unborn child.

4 FIRST-AID MEASURES

Eye Contact:

Flush eyes with large amounts of water. If signs/symptoms persist, get medical attention.

Skin Contact:

Remove contaminated clothing and shoes. Immediately flush skin with large amounts of water. Get medical attention. Wash contaminated clothing and shoes before reuse.

Inhalation:

Get immediate medical attention. Remove person to fresh air.

Ingestion:

Do not induce vomiting unless instructed to do so by medical personnel. Give victim two glasses of water. Never give anything by mouth to an unconscious person. Get medical attention.

Special Instructions:

Exposure may increase myocardial irritability. Do not administer sympathomimetic drugs unless absolutely necessary.

5 FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:

Use fire extinguishers with class B extinguishing agents (e.g., dry chemical, carbon dioxide).

Exposure Hazards:

Closed containers exposed to heat from fire may build pressure and explode. Vapours may travel long distances along the ground or floor to an ignition source and flash back.

Hazardous Decomposition:

Carbon Monoxide, Carbon Dioxide.

Fire-Fighting Procedures:

Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture. Wear full protective equipment and a self-contained breathing apparatus.

Special Instructions:

Aerosol container contains flammable material under pressure.

6 ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Refer to other sections of this Material Safety Data Sheet for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

Methods for Cleaning up:

Place leaking containers in a well-ventilated area, preferably in an exhaust hood, if available, or outdoors. Evacuate unprotected and untrained personnel from hazard area. The spill should be cleaned up by qualified personnel. Remove all ignition sources such as flames, smoking materials, and electrical spark sources. Use only non-sparking tools. Ventilate the area with fresh air. Contain spill. Clean up

residue. Collect the resulting residue containing solution.
Dispose of collected material as soon as possible.

7 HANDLING AND STORAGE

Precautions for Safe Storage:

Do not store containers on their sides.

Incompatible Materials/Conditions:

Store away from acids. Store away from heat. Store out of direct sunlight. Store away from oxidising agents.

Fire Prevention:

Ground containers securely when transferring contents. Wear low static or properly grounded shoes. No smoking while handling this material. Do not spray near flames or sources of ignition. Aerosol container contains flammable gas under pressure. Extremely flammable liquid and vapour. Aerosol container contains flammable gas under pressure.

Explosion Prevention:

Keep away from heat, sparks, open flame, pilot lights and other sources of ignition.

Static Prevention:

Avoid static discharge.

Precautions for Safe Handling:

Keep container tightly closed. Do not pierce or burn container, even after use. For industrial or professional use only. Avoid contact with oxidising agents.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye Protection:

Avoid eye contact with vapours, mists, or spray. The following should be worn alone or in combination, as appropriate to prevent eye contact: Safety glasses with side shields. Indirect vented goggles.

Hand Protection:

The following glove material(s) are recommended: Polyethylene/ethylene vinyl alcohol. Polyvinyl alcohol. Fluoroelastomer.

Skin Protection:

Avoid skin contact.

Respiratory Protection:

Avoid inhalation of vapours, mists or spray. Select one of the following approved respirators based on airborne concentration of contaminants and in accordance with regulations: Half facepiece or fullface pressure demand self-contained breathing apparatus.

Ingestion:

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water.

Recommended Ventilation:

Do not use in a confined area or areas with little or no air movement. Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below

Occupational Exposure Limits and/or control mist, vapour, or spray. If ventilation is not adequate, use respiratory protection equipment.

Exposure Limits:

TOLUENE (108-88-3)
HSE WEL TWA: 50 ppm; 191 mg/m³ skin OES
HSE WEL STEL: 150 ppm; 574 mg/m³ skin OES
PROPANE (74-98-6)
HSE WEL TWA: Asphyxiant OES
BUTANE (106-97-8)
HSE WEL TWA: 600 ppm; 1450 mg/m³ OES
HSE WEL STEL: 750 ppm; 1810 mg/m³ OES
BENZENE (71-43-2)
HSE WEL TWA: 5 ppm; 16 mg/m³ MEL
EEC Exposure Limit EC List 1, Category 1,
Carcinogen

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odour: Very light yellow liquid with aromatic hydrocarbon odour in aerosol container.

pH: Not applicable

Boiling point/boiling range: Not determined

Melting point/melting range: Not determined

Flash point: < - 4 C

Autoflammability: Not determined

Vapour pressure: Not determined

Water Solubility: Not determined

Specific gravity: Approximately 0.76 Water=1

Vapour density: Not determined

Volatile organic compounds: 743.28 gms/litre

Evaporation rate: Not determined

Viscosity: Not determined

Percent Volatile: 97.8%

10 STABILITY AND REACTIVITY

Conditions to Avoid:
Heat. Sparks and/or Flames.

Materials to Avoid:
Strong oxidising agents.

Hazardous Decomposition:
Stable. Hazardous polymerisation will not occur.

11 TOXICOLOGICAL INFORMATION

Effects from Eye Contact:

Moderate Eye Irritation: Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

Effects from Skin Contact:

May be absorbed through skin and cause target organ effects. Moderate Skin Irritation: Signs/symptoms may include localised redness, swelling, itching, and dryness.

Effects from Inhalation:

May be absorbed following inhalation and cause target organ effects. Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. Intentional concentration and inhalation may be harmful or fatal. Prolonged or repeated exposure, above recommended guidelines, may cause: Cardiac Sensitization: Signs/symptoms may include irregular heartbeat (arrhythmia), faintness, chest pain, and may be fatal.

Effects from Ingestion:

May be absorbed following ingestion and cause target organ effects. Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhoea.

Carcinogenicity:

Contains a chemical or chemicals which can cause cancer.

Reproductive Effects:

Contains a chemical or chemicals which can cause birth defects or other reproductive harm.

Other Effects and Information:

Central Nervous System (CNS) Depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness. Prolonged or repeated exposure may cause: Central Neuropathy: Signs/symptoms may include irritability, memory impairment, personality changes, sleep disorders, and decreased ability to concentrate. Liver Effects: Signs/symptoms may include loss of appetite, weight loss, fatigue, weakness, abdominal tenderness and jaundice. Kidney/Bladder Effects: Signs/symptoms may include changes in urine production, abdominal or lower back pain, increased protein in urine, increased blood urea nitrogen (BUN), blood in urine, and painful urination.

12 ECOLOGICAL INFORMATION

Ecotoxicity Data:

Not determined.

Ecofate Data:

Not determined.

Special statements for 2001/58/EC:

One or more components of this product have significant known or predicted environmental hazards, but a conservative assessment indicates a low environmental risk. Intended use and proper disposal are unlikely to cause the environmentally hazardous component(s) to enter the environment in quantities or by routes that could cause the adverse environmental

impacts.

Other Effects and Information:

Product usages, or other lifecycle stages, are expected to release volatile organic compounds (VOCs) to the atmosphere. Regulations may restrict the release of VOCs because they contribute to the formation of ozone and smog. Regulatory definitions for VOC vary. Because of smog and other impacts, releases through evaporation or other means should be minimised to the extent possible.

13 DISPOSAL CONSIDERATIONS

Product as Sold:

Incinerate in a permitted hazardous waste incinerator. Facility must be capable of handling aerosol cans. Dispose of empty product containers in a sanitary landfill.

Special Instructions:

Since regulations vary, consult applicable regulations or authorities before disposal.

14 TRANSPORT INFORMATION

UN NUMBER:

UN number: UN1950

UK ROAD/SEA FREIGHT (IMO) CLASSIFICATION:

Substance Identification Number: UN1950

Class: 2.0

Packing Group: Not applicable

Proper Shipping Name: AEROSOLS, FLAMMABLE. LTD
QUANTITY

ADR/RID CLASSIFICATION:

Class: 2.0

ADR classification: 5(f)

ICAO/IATA CLASSIFICATION:

Class: 2.1

Sub-Risk: Not applicable

Packing Group: Not applicable

Proper Shipping Name: AEROSOLS

15 REGULATORY INFORMATION

Disclosable Ingredients:
TOLUENE

Symbol(s):

(F+) Flame (Extremely Flammable). (Xn) St. Andrew's Cross (Harmful).

Risk Phrases:

(R12) Extremely flammable. (R48/20) Harmful: Danger of serious damage to health by prolonged exposure through inhalation. (R67) Vapours may cause drowsiness and dizziness. (R38) Irritating to skin. (R63) Possible risk of harm to the unborn child.

Safety Phrases:

WARNING! Pressurised container. Protect from sunlight and do not expose to temperatures exceeding 50 degrees C. Do not pierce or burn, even after use. Do not spray on a naked flame or incandescent material. Keep away from heat. Keep away from sources of ignition including pilot lights and sparks. No smoking. Do not breathe vapour or spray. Use only in well ventilated areas. Avoid contact with the skin and eyes. Wear suitable protective clothing and gloves. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. After contact with skin, wash immediately with plenty of water. Keep out of the reach of children.

16 OTHER INFORMATION

Regulatory Information: The following UK Regulations as amended may affect the product as supplied: The Chemicals (Hazard Information and Packaging for supply) Regulations, as amended. The Carriage of Dangerous Goods (Classification, Packaging and Labelling) and use of Transportable Pressure Receptacles Regulations 1996, as amended. Carriage of Dangerous Goods by Road regulations, 1996, as amended. The Control of Substances Hazardous to Health Regulations 1999 as amended. The Special Waste Regulations 1996, as amended. The Environmental Protection Act, 1990 The Health and Safety at Work Act, 1974.

Reissue date/Reason for reissue.
updated sections 4,5,6,7,8,9,10,11,12,13

Intended Use of Product:
Adhesion promoter.

The information on this Data Sheet is based on our experience and is correct to the best of our knowledge at the date of publication, but we do not accept any liability for any loss, damage or injury resulting from its use (except as required by law). The information may not be valid for any use not referred to in this Data Sheet or use of the product in combination with other materials. For these reasons, it is important that customers carry out their own test to satisfy themselves as to the suitability of the product for their own intended applications.