

# SAFETY DATA SHEET

#### 1. Identification

Product identifier Metal Bonding Adhesive

Other means of identification

**FIR No.** 156626

Recommended use Metal bonding adhesive

**Recommended restrictions** None known.

Manufacturer/Importer/Supplier/Distributor information

**Supplier** 

Company Name Ford Motor Company

Address Attention: MSDS Information, P.O. Box 1899

Dearborn, Michigan 48121

USA

 Telephone
 1-800-392-3673

 MSDS Information
 1-800-448-2063

msds@brownart.com

**Emergency telephone** 

numbers

Poison Control Center: USA and Canada: 1-800-959-3673 INFOTRAC (Transportation): USA and Canada 1-800-535-5053

## 2. Hazard(s) identification

Physical hazardsFlammable liquidsCategory 2Health hazardsAcute toxicity, dermalCategory 3Acute toxicity, inhalationCategory 4Skin corrosion/irritationCategory 2Serious eye damage/eye irritationCategory 1Sensitization, skinCategory 1

Carcinogenicity

Specific target organ toxicity, single exposure Category 3 respiratory tract irritation

Category 2

Environmental hazards Not classified.

OSHA defined hazards Not classified.

Label elements



Signal word Danger

Hazard statement Highly flammable liquid and vapor. Toxic in contact with skin. Causes skin irritation. May cause an

allergic skin reaction. Causes serious eye damage. Harmful if inhaled. May cause respiratory

irritation. Suspected of causing cancer.

**Precautionary statement** 

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. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing mist or vapor. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection.

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**Response** If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

If skin irritation or rash occurs: Get medical advice/attention. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. Take off immediately all contaminated clothing and wash it before reuse. In case of

fire: Use appropriate media to extinguish.

**Storage** Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place.

Keep cool. Store locked up.

**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC)

May be harmful if swallowed. Vapors have a narcotic effect and may cause headache, fatigue,

dizziness and nausea.

Supplemental information None.

# 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%	
METHYL METHACRYLATE		80-62-6	30 - < 40	
CYCLOHEXYL METHACRYLATE		101-43-9	3 - < 5	
METHACRYLIC ACID		79-41-4	3 - < 5	
N.N-DIMETHYLANILINE		121-69-7	< 1	

Specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

## 4. First-aid measures

Skin contact

delayed

**Inhalation**Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Call a POISON CENTER or doctor/physician if you feel unwell.

Remove contaminated clothing immediately and wash skin with soap and water. Get medical

advice/attention if you feel unwell. In case of eczema or other skin disorders: Seek medical attention and take along these instructions. Wash contaminated clothing before reuse.

**Eye contact** Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Get medical attention immediately.

Ingestion Rinse mouth. Call a physician or poison control center immediately. Do not induce vomiting.

Most important Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred

vision. Permanent eye damage including blindness could result. May cause respiratory irritation. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.

Indication of immediate medical attention and special treatment needed Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim warm. Keep victim under

ambulance. Continue flushing during transport to hospital. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

**General information**Take off immediately all contaminated clothing. IF exposed or concerned: Get medical

advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing

before reuse.

## 5. Fire-fighting measures

symptoms/effects, acute and

Suitable extinguishing media

Unsuitable extinguishing media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Water. Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

explode in heat of fire. Upon decomposition and/or low molecular weight hydrocarbons.

Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed. Container may explode in heat of fire. Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.

Specific methods

General fire hazards

Use standard firefighting procedures and consider the hazards of other involved materials.

Highly flammable liquid and vapor.

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## 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Avoid contact with eyes, skin, and clothing. Avoid inhalation of vapors and spray mists. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Keep combustibles (wood, paper, oil, etc.) away from spilled material. The product is immiscible with water and will sediment in water systems.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

#### **Environmental precautions**

7. Handling and storage Precautions for safe handling Avoid discharge into drains, water courses or onto the ground.

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Take precautionary measures against static discharges. Do not get this material in contact with eyes. Avoid inhalation of vapors and spray mists. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Wash contaminated clothing before reuse. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

## 8. Exposure controls/personal protection

#### Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value	
METHYL METHACRYLATE (CAS 80-62-6)	PEL	410 mg/m3	
		100 ppm	
N,N-DIMETHYLANILINE (CAS 121-69-7)	PEL	25 mg/m3	
		5 ppm	
<b>US. ACGIH Threshold Limit Values</b>			
Components	Туре	Value	
METHACRYLIC ACID (CAS 79-41-4)	TWA	20 ppm	
METHYL METHACRYLATE (CAS 80-62-6)	STEL	100 ppm	
	TWA	50 ppm	
N,N-DIMETHYLANILINE (CAS 121-69-7)	STEL	10 ppm	
	TWA	5 ppm	

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**US. NIOSH: Pocket Guide to Chemical Hazards** Components Value Type METHACRYLIC ACID (CAS TWA 70 mg/m3 79-41-4) 20 ppm **TWA** METHYL METHACRYLATE 410 mg/m3 (CAS 80-62-6) 100 ppm N,N-DIMETHYLANILINE **STEL** 50 mg/m3 (CAS 121-69-7) 10 ppm **TWA** 25 mg/m3 5 ppm

Biological limit values No biological exposure limits noted for the ingredient(s).

**Exposure guidelines** 

US - California OELs: Skin designation

METHACRYLIC ACID (CAS 79-41-4)

N,N-DIMETHYLANILINE (CAS 121-69-7)

Can be absorbed through the skin.

Can be absorbed through the skin.

US - Minnesota Haz Subs: Skin designation applies

N,N-DIMETHYLANILINE (CAS 121-69-7) Skin designation applies.

US - Tennessee OELs: Skin designation

METHACRYLIC ACID (CAS 79-41-4)

N,N-DIMETHYLANILINE (CAS 121-69-7)

Can be absorbed through the skin.

Can be absorbed through the skin.

**US ACGIH Threshold Limit Values: Skin designation** 

N,N-DIMETHYLANILINE (CAS 121-69-7)

Can be absorbed through the skin.

US NIOSH Pocket Guide to Chemical Hazards: Skin designation

METHACRYLIC ACID (CAS 79-41-4)

N,N-DIMETHYLANILINE (CAS 121-69-7)

Can be absorbed through the skin.

Can be absorbed through the skin.

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

N,N-DIMETHYLANILINE (CAS 121-69-7) Can be absorbed through the skin.

Appropriate engineering

controls

Explosion-proof general and local exhaust ventilation. Use adequate ventilation to control airborne concentrations below the exposure limits/guidelines. If user operations generate a vapor, dust and/or mist, use process enclosure, local exhaust ventilation, or other engineering controls to control airborne levels below the recommended exposure limits/guidelines.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles) and a face shield. Wear safety glasses with

side shields (or goggles).

Skin protection

Respiratory protection

**Hand protection** Suitable chemical protective gloves should be worn when the potential exists for prolonged or

repeated skin exposure. The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Use protective

gloves made of: Nitrile. Neoprene. Rubber gloves.

Other Wear appropriate chemical resistant clothing. Wear appropriate chemical resistant clothing if

applicable.

If engineering controls do not maintain airborne concentrations below recommended exposure

limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, an approved

airborne concentrations to a level which is adequate to protect worker health, an approved respirator must be worn. Respirator selection, use and maintenance should be in accordance with the requirements of OSHA Respiratory Protection Standard 29 CFR 1910.134 and/or Canadian

Standard CSA Z94.4.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not

be allowed out of the workplace.

# 9. Physical and chemical properties

**Appearance** 

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Physical state Liquid.

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Paste. **Form** Off-white. Color Odor Sweet.

**Odor threshold** Not available. Not available. pН Not available. Melting point/freezing point

Initial boiling point and boiling

range

140 - 321.98 °F (60 - 161.1 °C) (140-322F)

59.0 °F (15.0 °C) SETAFLASH Flash point

< 1 (BuAc=1) **Evaporation rate** Not applicable. Flammability (solid, gas) Upper/lower flammability or explosive limits

Explosive limit - lower (%) 1.6 % 8.8 % Explosive limit - upper (%)

Vapor pressure Not available. > 1 (AIR=1) Vapor density

Relative density 1.13

39.2 °F (4 °C) Relative density temperature

Solubility(ies)

**INSOLUBLE IN WATER** Solubility (water)

Partition coefficient (n-octanol/water)

Not available.

**Auto-ignition temperature** Not available. **Decomposition temperature** Not available. Not available. **Viscosity** 

# 10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

Material is stable under normal conditions. **Chemical stability** Possibility of hazardous Hazardous polymerization does not occur.

reactions

Conditions to avoid

Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the

flash point. Contact with incompatible materials.

Acids, Strong oxidizing agents, Nitrates, Amines, Peroxides, Fluorine, Chlorine, Incompatible materials

Hazardous decomposition

products

Irritating and/or toxic fumes and gases may be emitted upon the products decomposition. Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight

hydrocarbons.

# 11. Toxicological information

## Information on likely routes of exposure

Inhalation Harmful if inhaled. Vapors have a narcotic effect and may cause headache, fatigue, dizziness and

nausea.

Skin contact Toxic in contact with skin. Causes skin irritation. May cause an allergic skin reaction.

Eye contact Causes serious eye damage.

However, ingestion is not likely to be a primary route of occupational exposure. Ingestion

Symptoms related to the physical, chemical and toxicological characteristics Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause respiratory irritation. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis.

Rash.

#### Information on toxicological effects

Toxic in contact with skin. Harmful if inhaled. May cause an allergic skin reaction. May cause **Acute toxicity** 

respiratory irritation.

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Components Species Calculated/Test Results

METHACRYLIC ACID (CAS 79-41-4)

Acute

Dermal

LD50 Guinea pig 1 g/kg

Rabbit 500 mg/kg

Inhalation

LC50 Rat 7.1 mg/l, 4 Hours

Oral

LD50 Mouse 1250 mg/kg

Rabbit 1200 mg/kg
Rat 1060 mg/kg

METHYL METHACRYLATE (CAS 80-62-6)

**Acute** 

Inhalation

LC50 Mouse 18.5 mg/l, 2 Hours

Rat 3750 ppm, 8 Hours

Oral

LD50 Mouse 5.5 ml/kg

Rabbit 6000 mg/kg
Rat 7800 mg/kg

N,N-DIMETHYLANILINE (CAS 121-69-7)

Acute

Dermal

LD50 Rabbit 1770 mg/kg

Oral

LD50 Rat 1.41 ml/kg

**Skin corrosion/irritation** Causes skin irritation.

Serious eye damage/eye Causes serious eye damage.

irritation

Respiratory or skin sensitization

**ACGIH** sensitization

METHYL METHACRYLATE (CAS 80-62-6) Sensitizer.

**Respiratory sensitization** Not a respiratory sensitizer.

**Skin sensitization** May cause an allergic skin reaction.

**Germ cell mutagenicity**No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

**Carcinogenicity** Suspected of causing cancer.

IARC Monographs. Overall Evaluation of Carcinogenicity

METHYL METHACRYLATE (CAS 80-62-6) 3 Not classifiable as to carcinogenicity to humans. N,N-DIMETHYLANILINE (CAS 121-69-7) 3 Not classifiable as to carcinogenicity to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

**Reproductive toxicity**This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

May cause respiratory irritation.

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard Not an aspiration hazard.

**Chronic effects** Prolonged inhalation may be harmful.

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# 12. Ecological information

**Ecotoxicity** 

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

**Ecotoxicity** 

Components Species Calculated/Test Results

METHYL METHACRYLATE (CAS 80-62-6)

Aquatic

Fish LC50 Fathead minnow (Pimephales promelas) 136.3 - 183.4 mg/l, 96 hours

N,N-DIMETHYLANILINE (CAS 121-69-7)

**Aquatic** 

Crustacea EC50 Water flea (Daphnia magna) 1.7 - 3.1 mg/l, 48 hours
Fish LC50 Fathead minnow (Pimephales promelas) 52.6 mg/l, 96 hours

Persistence and degradability No data is available on the degradability of this product.

**Bioaccumulative potential** 

Partition coefficient n-octanol / water (log Kow)

METHACRYLIC ACID 0.93
METHYL METHACRYLATE 1.38
N.N-DIMETHYLANILINE 2.31

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of

contents/container in accordance with local/regional/national/international regulations.

**Local disposal regulations** Dispose in accordance with all applicable regulations.

**Hazardous waste code**The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

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

Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

## 14. Transport information

DOT

<Unspecified>

UN number UN1133 UN proper shipping name ADHESIVES

Transport hazard class(es)

Class 3
Subsidiary risk Label(s) 3
Packing group ||

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

IATA

<Unspecified>

UN number UN1133 UN proper shipping name ADHESIVES

Transport hazard class(es)

Class 3
Subsidiary risk Label(s) 3
Packing group II
Environmental hazards No.

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Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Other information

Passenger and cargo

aircraft

Forbidden. Cargo aircraft only

Forbidden.

Not established.

**IMDG** 

<Unspecified>

UN1133 **UN** number UN proper shipping name **ADHESIVES** 

Transport hazard class(es)

Class 3 Subsidiary risk 3 Label(s) Packing group П **Environmental hazards** 

> Marine pollutant No.

**EmS** Not available.

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to Annex II of MARPOL 73/78 and

the IBC Code

DOT



IATA; IMDG



## 15. Regulatory information

**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)** 

METHYL METHACRYLATE (CAS 80-62-6) Listed. N,N-DIMETHYLANILINE (CAS 121-69-7) Listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

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## Superfund Amendments and Reauthorization Act of 1986 (SARA)

Immediate Hazard - Yes **Hazard categories** 

> Delayed Hazard - Yes Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No

## SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous No

chemical

## SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.
METHYL METHACRYLATE	80-62-6	30 - < 40
N,N-DIMETHYLANILINE	121-69-7	< 1

#### Other federal regulations

#### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

METHYL METHACRYLATE (CAS 80-62-6) N,N-DIMETHYLANILINE (CAS 121-69-7)

## Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

## **US state regulations**

## US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed.

#### **US. Massachusetts RTK - Substance List**

METHACRYLIC ACID (CAS 79-41-4) METHYL METHACRYLATE (CAS 80-62-6) N,N-DIMETHYLANILINE (CAS 121-69-7)

## US. New Jersey Worker and Community Right-to-Know Act

METHACRYLIC ACID (CAS 79-41-4) METHYL METHACRYLATE (CAS 80-62-6) N,N-DIMETHYLANILINE (CAS 121-69-7)

## US. Pennsylvania Worker and Community Right-to-Know Law

METHACRYLIC ACID (CAS 79-41-4) METHYL METHACRYLATE (CAS 80-62-6) N,N-DIMETHYLANILINE (CAS 121-69-7)

#### US. Rhode Island RTK

METHYL METHACRYLATE (CAS 80-62-6) N,N-DIMETHYLANILINE (CAS 121-69-7)

#### **US. California Proposition 65**

WARNING: This product contains a chemical known to the State of California to cause cancer.

#### **International Inventories**

All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.

# 16. Other information, including date of preparation or last revision

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**HMIS®** ratings Health: 2

> Flammability: 3 Physical hazard: 1

Health: 1 NFPA ratings

Flammability: 3 Instability: 0

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SDS US

# Preparation Information and Disclaimer

This document was prepared by FCSD-Toxicology, Ford Motor Company, Diagnostic Service Center II, 1800 Fairlane Drive, Allen Park, MI 48101, USA, based in part on information provided by the manufacturer. The information on this data sheet represents our current data and is accurate to the best of our knowledge as to the proper handling of this product under normal conditions and in accordance with the application specified on the packaging and/or technical guidance literature. Any other use of the product which involves using the product in combination with any other product or any other process is the responsibility of the user. To the extent that there are any differences between this product's Safety Data Sheet (SDS) and the consumer packaged product labels, the SDS should be followed.

Part number(s)

TA-1, TA-1-B

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