# SAFETY DATA SHEET



Date of issue/Date of revision 27 May 2021

Version 19

# Section 1. Identification

: MAP SLOW CATALYST **Product name** 

**Product code** : 43999SP Other means of : Not available.

identification **Product type** 

: Liquid.

Relevant identified uses of the substance or mixture and uses advised against

**Product use** : Industrial applications.

Use of the substance/

mixture

: Coating. Paints. Painting-related materials.

Uses advised against : Not applicable.

: PPG Industries. Inc. Manufacturer

One PPG Place,

Pittsburgh, PA 15272 : (412) 434-4515 (U.S.)

**Emergency telephone** (514) 645-1320 (Canada) number

SETIQ Interior de la República: 800-00-214-00 (México) SETIQ Ciudad de México: (55) 5559-1588 (México)

**Technical Phone Number** : 1-800-647-6050

# Section 2. Hazards identification

**OSHA/HCS** status

: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture : FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (inhalation) - Category 4 **RESPIRATORY SENSITIZATION - Category 1** 

SKIN SENSITIZATION - Category 1

**CARCINOGENICITY - Category 1B** 

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract

irritation) - Category 3

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) -

Category 3

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 48.1%

(dermal), 5.4% (inhalation)

**GHS** label elements

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# Section 2. Hazards identification

## **Hazard pictograms**







Signal word

**Hazard statements** 

- : Danger
- : Flammable liquid and vapor.

May cause an allergic skin reaction.

Harmful if inhaled.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause respiratory irritation.

May cause drowsiness or dizziness.

May cause cancer.

May cause damage to organs through prolonged or repeated exposure.

## **Precautionary statements**

**Prevention** 

: Øbtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Wear respiratory protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating or lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Use only outdoors or in a well-ventilated area. Do not breathe vapor. Contaminated work clothing must not be allowed out of the workplace.

## Response

## Storage

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

#### Disposal

: Dispose of contents and container in accordance with all local, regional, national and international regulations.

# Supplemental label elements

: Moisture-sensitive material. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapor/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Skin contact to isocyanate monomer may lead to allergic lung reaction. Based on the properties of the isocyanate components and considering toxicological data on similar mixtures, this mixture may cause acute irritation and/or sensitization of the respiratory system, leading to an asthmatic condition, wheezing and tightness of the chest. Sensitized persons may subsequently show asthmatic symptoms when exposed to atmospheric concentrations well below the OEL. Repeated exposure may lead to permanent respiratory disability. Persons with a history of skin sensitization problems or asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Avoid contact with skin and clothing. Wash thoroughly after handling. Emits toxic fumes when heated.

# Hazards not otherwise classified

: Prolonged or repeated contact may dry skin and cause irritation.

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# Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Product name : MAP SLOW CATALYST

| Ingredient name                          | %           | CAS number |
|--|-------------|------------|
| Solvent naphtha (petroleum), heavy arom. | ≥20 - ≤50   | 64742-94-5 |
| Hexamethylene diisocyanate, oligomers    | ≥20 - ≤50   | 28182-81-2 |
| n-butyl acetate                          | ≥5.0 - ≤10  | 123-86-4   |
| naphthalene                              | ≥5.0 - ≤10  | 91-20-3    |
| xylene                                   | ≥5.0 - ≤8.1 | 1330-20-7  |
| ethylbenzene                             | <1.0        | 100-41-4   |
| hexamethylene-di-isocyanate              | <1.0        | 822-06-0   |

SUB codes represent substances without registered CAS Numbers.

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First aid measures

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately; have Safety Data Sheet information available. Never give anything by mouth to an unconscious or convulsing person.

## **Description of necessary first aid measures**

**Eye contact**: Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids

apart for at least 10 minutes and seek immediate medical advice.

Inhalation : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is

irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained

personnel.

**Skin contact** : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water

or use recognized skin cleanser. Do NOT use solvents or thinners.

**Ingestion**: If swallowed, seek medical advice immediately and show this container or label. Keep

person warm and at rest. Do NOT induce vomiting.

### Most important symptoms/effects, acute and delayed

## Potential acute health effects

**Eve contact**: No known significant effects or critical hazards.

Inhalation : Harmful if inhaled. Can cause central nervous system (CNS) depression. May cause

drowsiness or dizziness. May cause respiratory irritation. May cause allergy or asthma

symptoms or breathing difficulties if inhaled.

**Skin contact**: Defatting to the skin. May cause skin dryness and irritation. May cause an allergic skin

reaction.

Ingestion : Can cause central nervous system (CNS) depression.

## Over-exposure signs/symptoms

**Eve contact** : No specific data.

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## Section 4. First aid measures

**Inhalation** : Adverse symptoms may include the following:

respiratory tract irritation

coughing

wheezing and breathing difficulties

asthma

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness

Skin contact : Adverse symptoms may include the following:

> irritation redness drvness cracking

Ingestion : No specific data.

### Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed.

The exposed person may need to be kept under medical surveillance for 48 hours.

**Specific treatments** : No specific treatment.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. If it is

suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water

before removing it, or wear gloves.

See toxicological information (Section 11)

# Section 5. Fire-fighting measures

### **Extinguishing media**

Suitable extinguishing

media

Unsuitable extinguishing

media

: Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.

: Do not use water jet.

Specific hazards arising

from the chemical

: Flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of

ignition and flash back. Runoff to sewer may create fire or explosion hazard.

**Hazardous thermal** decomposition products : Decomposition products may include the following materials:

carbon oxides nitrogen oxides

Cyanate and isocyanate.

hydrogen cyanide

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# Section 5. Fire-fighting measures

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

# Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders:

: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Environmental precautions** 

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

## Methods and materials for containment and cleaning up

**Small spill** 

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Special provisions

: Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Place in a suitable container. The contaminated area should be cleaned immediately with a suitable decontaminant. One possible (flammable) decontaminant comprises (by volume): water (45 parts), ethanol or isopropyl alcohol (50 parts) and concentrated (d: 0,880) ammonia solution (5 parts). A non-flammable alternative is sodium carbonate (5 parts) and water (95 parts). Add the same decontaminant to the remnants and let stand for several days until no further reaction in an unsealed container. Once this stage is reached, close container and dispose of according to local regulations (see section 13). Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.

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# Section 7. Handling and storage

## Precautions for safe handling

#### **Protective measures**

: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems or asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

## **Special precautions**

: Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Vapors are heavier than air and may spread along floors. If this material is part of a multiple component system, read the Safety Data Sheet(s) for the other component or components before blending as the resulting mixture may have the hazards of all of its parts.

## Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

## Conditions for safe storage, : including any incompatibilities

Do not store below the following temperature: 5°C (41°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Precautions should be taken to minimize exposure to atmospheric humidity or water. CO<sub>2</sub> will be formed, which, in closed containers, could result in pressurization.

# Section 8. Exposure controls/personal protection

### **Control parameters**

### Occupational exposure limits

| Ingredient name                          | Exposure limits                    |  |  |  |  |
|--|------------------------------------|--|--|--|--|
| Solvent naphtha (petroleum), heavy arom. | None.                              |  |  |  |  |
| Hexamethylene diisocyanate, oligomers    | IPEL (-).                          |  |  |  |  |
|  | TWA: 0.5 mg/m³                     |  |  |  |  |
|  | STEL: 1 mg/m³                      |  |  |  |  |
| n-butyl acetate                          | OSHA PEL (United States, 5/2018).  |  |  |  |  |
| -butyl acetate                           | TWA: 710 mg/m³ 8 hours.            |  |  |  |  |
|  | TWA: 150 ppm 8 hours.              |  |  |  |  |
|  | ACGIH TLV (United States, 3/2020). |  |  |  |  |
| I.                                       |                                    |  |  |  |  |
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# Section 8. Exposure controls/personal protection

STEL: 150 ppm 15 minutes. TWA: 50 ppm 8 hours. naphthalene ACGIH TLV (United States, 3/2020). Absorbed through skin. TWA: 52 mg/m<sup>3</sup> 8 hours. TWA: 10 ppm 8 hours. OSHA PEL (United States, 5/2018). TWA: 50 mg/m<sup>3</sup> 8 hours. TWA: 10 ppm 8 hours. ACGIH TLV (United States, 3/2020). xylene STEL: 651 mg/m<sup>3</sup> 15 minutes. STEL: 150 ppm 15 minutes. TWA: 434 mg/m<sup>3</sup> 8 hours. TWA: 100 ppm 8 hours. OSHA PEL (United States, 5/2018). TWA: 435 mg/m<sup>3</sup> 8 hours. TWA: 100 ppm 8 hours.

ethylbenzene

hexamethylene-di-isocyanate

ACGIH TLV (United States, 3/2020).

TWA: 20 ppm 8 hours. OSHA PEL (United States, 5/2018).

TWA: 435 mg/m<sup>3</sup> 8 hours. TWA: 100 ppm 8 hours.

ACGIH TLV (United States, 3/2020).

TWA: 0.03 mg/m<sup>3</sup> 8 hours. TWA: 0.005 ppm 8 hours.

OSHA PEL (United States, 5/2018).

Absorbed through skin.

TWA: 5 mg/m³, (as CN) 8 hours.

Key to abbreviations

= Acceptable Maximum Peak

ACGIH = American Conference of Governmental Industrial Hygienists.

C = Ceiling Limit = Fume

= Internal Permissible Exposure Limit IPEL

OSHA = Occupational Safety and Health Administration.

= OSHA 29 CFR 1910.1200 Subpart Z - Toxic and Hazardous Substances

S = Potential skin absorption SR = Respiratory sensitization = Skin sensitization

STEL = Short term Exposure limit values

TD = Total dust

= Threshold Limit Value TLV TWA = Time Weighted Average

### Consult local authorities for acceptable exposure limits.

procedures

Recommended monitoring: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

SS

Appropriate engineering controls

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

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# Section 8. Exposure controls/personal protection

Environmental exposure controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### **Individual protection measures**

**Hygiene measures** 

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

Skin protection

Hand protection

: Safety glasses with side shields.

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Gloves
Body protection

: butyl rubber

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear antistatic protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

: Use an air-fed respirator unless a site-specific assessment determines that an air-fed respirator is not necessary, in which case the results of the risk assessment should be utilized to determine whether respiratory protection is necessary and what type of protection is appropriate. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

The respiratory protection shall be in accordance to 29 CFR 1910.134.

Restrictions on use

Persons with a history of asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used.

# Section 9. Physical and chemical properties

### **Appearance**

Physical state : Liquid.
Color : Clear.

Odor : Not available.
Odor threshold : Not available.
pH : Not applicable.
Melting point : Not available.

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# Section 9. Physical and chemical properties

**Boiling point** : >37.78°C (>100°F)

Flash point : Closed cup: 27.22°C (81°F)

Auto-ignition temperature : Not available.

Decomposition temperature : Not available.

Flammability (solid, gas) : Not available.

Lower and upper explosive : Not available.

(flammable) limits

Evaporation rate: Not available.Vapor pressure: Not available.Vapor density: Not available.

Relative density : 0.96

Density ( lbs / gal ) : 8.01

**Solubility** : Insoluble in the following materials: cold water.

Partition coefficient: n-

octanol/water

: Not applicable.

Viscosity : Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt)

**Volatility** : 71% (v/v), 65.817% (w/w)

% Solid. (w/w) : 34.183

# Section 10. Stability and reactivity

**Reactivity**: No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability** : The product is stable.

Possibility of hazardous

reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

**Conditions to avoid** : In a fire, hazardous decomposition products may be produced.

Refer to protective measures listed in sections 7 and 8.

**Incompatible materials**: Keep away from: oxidizing agents, strong alkalis, strong acids, amines, alcohols, water.

Uncontrolled exothermic reactions occur with amines and alcohols.

**Hazardous decomposition** 

products

: Depending on conditions, decomposition products may include the following materials:

Cyanate and isocyanate. carbon oxides nitrogen oxides hydrogen cyanide

# **Section 11. Toxicological information**

Information on toxicological effects

**Acute toxicity** 

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# Section 11. Toxicological information

| Product/ingredient name                  | Result                          | Species      | Dose                  | Exposure |
|--|---------------------------------|--------------|-----------------------|----------|
| Solvent naphtha (petroleum), heavy arom. | LC50 Inhalation Dusts and mists | Rat          | >5.2 mg/l             | 4 hours  |
|  | LD50 Oral                       | Rat          | >5 g/kg               | -        |
| Hexamethylene diisocyanate, oligomers    | LD50 Dermal                     | Rabbit       | >2000 mg/kg           | -        |
|  | LD50 Oral                       | Rat - Female | >2500 mg/kg           | -        |
| n-butyl acetate                          | LC50 Inhalation Vapor           | Rat          | >21.1 mg/l            | 4 hours  |
|  | LC50 Inhalation Vapor           | Rat          | 2000 ppm              | 4 hours  |
|  | LD50 Dermal                     | Rabbit       | >17600 mg/kg          | -        |
|  | LD50 Oral                       | Rat          | 10.768 g/kg           | -        |
| naphthalene                              | LD50 Dermal                     | Rabbit       | >20 g/kg              | -        |
|  | LD50 Oral                       | Rat          | 490 mg/kg             | -        |
| xylene                                   | LD50 Dermal                     | Rabbit       | 1.7 g/kg              | -        |
|  | LD50 Oral                       | Rat          | 4.3 g/kg              | -        |
| ethylbenzene                             | LC50 Inhalation Vapor           | Rat          | 17.8 mg/l             | 4 hours  |
|  | LD50 Dermal                     | Rabbit       | 17.8 g/kg             | -        |
|  | LD50 Oral                       | Rat          | 3.5 g/kg              | -        |
| hexamethylene-di-isocyanate              | LC50 Inhalation Dusts and mists | Rat          | 124 mg/m <sup>3</sup> | 4 hours  |
|  | LC50 Inhalation Vapor           | Rat          | 151 mg/m³             | 4 hours  |
|  | LC50 Inhalation Vapor           | Rat          | 22 ppm                | 4 hours  |
|  | LD50 Dermal                     | Rabbit       | 0.57 g/kg             | -        |
|  | LD50 Oral                       | Rat          | 0.71 g/kg             | -        |

## **Conclusion/Summary**

: There are no data available on the mixture itself.

## **Irritation/Corrosion**

| Product/ingredient name | Result                   | Species | Score | Exposure           | Observation |
|-------------------------|--------------------------|---------|-------|--------------------|-------------|
| xylene                  | Skin - Moderate irritant | Rabbit  | -     | 24 hours 500<br>mg | -           |
|                         |                          |         |       | 9                  |             |

## **Conclusion/Summary**

Skin: There are no data available on the mixture itself.Eyes: There are no data available on the mixture itself.Respiratory: There are no data available on the mixture itself.

**Sensitization** 

**Conclusion/Summary** 

Skin: There are no data available on the mixture itself.Respiratory: There are no data available on the mixture itself.

**Mutagenicity** 

**Conclusion/Summary**: There are no data available on the mixture itself.

**Carcinogenicity** 

**Conclusion/Summary**: There are no data available on the mixture itself.

**Classification** 

| Product/ingredient name | OSHA | IARC | NTP  |
|-------------------------|------|------|--|
| naphthalene             | -    | 2B   | Reasonably anticipated to be a human carcinogen. |
| xylene                  | -    | 3    | -  |
| ethylbenzene            | -    | 2B   | -  |

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# **Section 11. Toxicological information**

Carcinogen Classification code:

IARC: 1, 2A, 2B, 3, 4

NTP: Known to be a human carcinogen; Reasonably anticipated to be a human carcinogen

OSHA: +

Not listed/not regulated: -

**Reproductive toxicity** 

**Conclusion/Summary**: There are no data available on the mixture itself.

**Teratogenicity** 

**Conclusion/Summary**: There are no data available on the mixture itself.

Specific target organ toxicity (single exposure)

| Name                                     | Category   | Route of exposure | Target organs                |
|--|------------|-------------------|------------------------------|
| Solvent naphtha (petroleum), heavy arom. | Category 3 | -                 | Narcotic effects             |
| Hexamethylene diisocyanate, oligomers    | Category 3 | -                 | Respiratory tract irritation |
| n-butyl acetate                          | Category 3 | -                 | Narcotic effects             |
| xylene                                   | Category 3 | -                 | Respiratory tract irritation |
| hexamethylene-di-isocyanate              | Category 3 | -                 | Respiratory tract irritation |

## Specific target organ toxicity (repeated exposure)

| Name         | Category   | Route of exposure | Target organs  |
|--------------|------------|-------------------|----------------|
| naphthalene  | Category 2 | -                 | -              |
| ethylbenzene | Category 2 | -                 | hearing organs |

### **Target organs**

: Contains material which causes damage to the following organs: brain.

Contains material which may cause damage to the following organs: blood, kidneys, lungs, the nervous system, liver, upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea.

#### **Aspiration hazard**

| Name   | Result   |
|--------|--|
| xylene | ASPIRATION HAZARD - Category 1<br>ASPIRATION HAZARD - Category 1<br>ASPIRATION HAZARD - Category 1 |

## Information on the likely routes of exposure

## Potential acute health effects

**Eye contact**: No known significant effects or critical hazards.

Inhalation : Harmful if inhaled. Can cause central nervous system (CNS) depression. May cause

drowsiness or dizziness. May cause respiratory irritation. May cause allergy or asthma

symptoms or breathing difficulties if inhaled.

Skin contact : Defatting to the skin. May cause skin dryness and irritation. May cause an allergic skin

reaction.

Ingestion : Can cause central nervous system (CNS) depression.

### Over-exposure signs/symptoms

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# **Section 11. Toxicological information**

Eye contact : No specific data.

**Inhalation** : Adverse symptoms may include the following:

respiratory tract irritation

coughing

wheezing and breathing difficulties

asthma

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness

**Skin contact**: Adverse symptoms may include the following:

irritation redness dryness cracking

Ingestion : No specific data.

## Delayed and immediate effects and also chronic effects from short and long term exposure

**Conclusion/Summary** 

: There are no data available on the mixture itself. Skin contact to isocyanate monomer may lead to allergic lung reaction. Based on the properties of the isocyanate components and considering toxicological data on similar mixtures, this mixture may cause acute irritation and/or sensitization of the respiratory system, leading to an asthmatic condition, wheezing and tightness of the chest. Repeated exposure may lead to permanent respiratory disability. Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatique, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. There is some evidence that repeated exposure to organic solvent vapors in combination with constant loud noise can cause greater hearing loss than expected from exposure to noise alone. If splashed in the eyes, the liquid may cause irritation and reversible damage. Ingestion may cause nausea, diarrhea and vomiting. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Short term exposure

**Potential immediate** 

effects

: There are no data available on the mixture itself.

Potential delayed effects : There are no data available on the mixture itself.

Long term exposure

Potential immediate

effects

There are no data available on the mixture itself.

**Potential delayed effects**: There are no data available on the mixture itself.

Potential chronic health effects

General: May cause damage to organs through prolonged or repeated exposure. Prolonged or

repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to

very low levels.

Carcinogenicity: May cause cancer. Risk of cancer depends on duration and level of exposure.

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**Product name MAP SLOW CATALYST** 

# **Section 11. Toxicological information**

Mutagenicity : No known significant effects or critical hazards.
 Reproductive toxicity : No known significant effects or critical hazards.

## **Numerical measures of toxicity**

## **Acute toxicity estimates**

| Product/ingredient name               | Oral (mg/<br>kg) | Dermal<br>(mg/kg) | Inhalation<br>(gases)<br>(ppm) | Inhalation<br>(vapors)<br>(mg/l) | Inhalation<br>(dusts and<br>mists) (mg/<br>I) |
|---------------------------------------|------------------|-------------------|--------------------------------|----------------------------------|---|
| MAP SLOW CATALYST                     | 3870             | 3104.3            | N/A                            | 209                              | 3.8   |
| Hexamethylene diisocyanate, oligomers | 2500             | 2500              | N/A                            | N/A                              | 1.5   |
| n-butyl acetate                       | 10768            | N/A               | N/A                            | N/A                              | N/A   |
| naphthalene                           | 490              | N/A               | N/A                            | N/A                              | N/A   |
| xylene                                | 4300             | 1700              | N/A                            | 11                               | 1.5   |
| ethylbenzene                          | 3500             | 17800             | N/A                            | 17.8                             | 1.5   |
| hexamethylene-di-isocyanate           | 710              | 570               | N/A                            | 0.151                            | 0.124   |

# Section 12. Ecological information

## **Toxicity**

| Product/ingredient name                  | Result                                 | Species                         | Exposure |
|--|--|---------------------------------|----------|
| Solvent naphtha (petroleum), heavy arom. | NOEL 0.48 mg/l Fresh water             | Daphnia                         | 21 days  |
| Hexamethylene diisocyanate, oligomers    | Acute EC50 >1000 mg/l                  | Algae - scenedesmus subspicatus | 72 hours |
|  | Acute EC50 >100 mg/l                   | Daphnia - daphnia magna         | 48 hours |
|  | Acute LC50 >100 mg/l                   | Fish - Danio rerio (zebra fish) | 96 hours |
| n-butyl acetate                          | Acute LC50 18 mg/l                     | Fish                            | 96 hours |
| ethylbenzene                             | Acute LC50 150 to 200 mg/l Fresh water | Fish                            | 96 hours |

## Persistence and degradability

| Product/ingredient name                  | Test               | Result                   |   | Dose |                    | Inoculum |
|--|--------------------|--------------------------|---|------|--------------------|----------|
| <mark>ଜ-</mark> butyl acetate            | TEPA and OECD 301D | 83 % - Readily - 28 days |   | -    | -                  |          |
| Product/ingredient name                  | Aquatic half-life  | e Photolysis             |   |      | Biodegradability   |          |
| ⊮examethylene diisocyanate,<br>oligomers | -                  |                          | - |      | Not rea            | dily     |
| n-butyl acetate                          | -                  |                          | - |      | Readily            |          |
| xylene<br>ethylbenzene                   | -                  |                          | - |      | Readily<br>Readily |          |

## **Bioaccumulative potential**

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# Section 12. Ecological information

| Product/ingredient name                  | LogPow     | BCF         | Potential |
|--|------------|-------------|-----------|
| Solvent naphtha (petroleum), heavy arom. | 2.8 to 6.5 | -           | high      |
| Hexamethylene diisocyanate, oligomers    | -          | 3.2         | low       |
| n-butyl acetate                          | 2.3        | -           | low       |
| naphthalene                              | 3.4        | 85.11       | low       |
| xylene                                   | 3.12       | 7.4 to 18.5 | low       |
| ethylbenzene                             | 3.6        | 79.43       | low       |
| hexamethylene-di-isocyanate              | 0.02       | -           | low       |

### **Mobility in soil**

Soil/water partition coefficient (Koc)

: Not available.

# Section 13. Disposal considerations

**Disposal methods** 

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees. Section 6. Accidental release measures

# 14. Transport information

|                             | DOT    | IMDG   | IATA   |
|-----------------------------|--------|--------|--------|
| UN number                   | UN1263 | UN1263 | UN1263 |
| UN proper shipping name     | PAINT  | PAINT  | PAINT  |
| Transport hazard class (es) | 3      | 3      | 3      |
| Packing group               | III    | III    | III    |
|                             |        |        |        |

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**Product name MAP SLOW CATALYST** 

# 14. Transport information

Environmental hazards No. Yes. Yes. The environmentally

hazardous substance mark is

not required.

Marine pollutant (Solvent naphtha (petroleum), Not applicable. Not applicable.

heavy aromatic, naphthalene)

Not applicable. Not applicable.

**Product RQ (lbs)** 1856.1 **RQ** substances (naphthalene, xylene) Not applicable. Not applicable.

### **Additional information**

substances

DOT : Package sizes shipped in quantities less than the product reportable quantity are not subject to the

RQ (reportable quantity) transportation requirements.

**IMDG** : The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.

IATA : The environmentally hazardous substance mark may appear if required by other transportation

regulations.

Special precautions for user : Transport within user's premises: always transport in closed containers that are

upright and secure. Ensure that persons transporting the product know what to do in

the event of an accident or spillage.

Transport in bulk according: Not applicable.

to IMO instruments

# Section 15. Regulatory information

## **United States**

United States inventory (TSCA 8b): All components are active or exempted.

**U.S. Federal regulations** 

**SARA 302/304** 

: Not applicable. **SARA 304 RQ Composition/information on ingredients** 

No products were found.

**SARA 311/312** 

Classification : FLAMMABLE LIQUIDS - Category 3

> ACUTE TOXICITY (inhalation) - Category 4 **RESPIRATORY SENSITIZATION - Category 1**

SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 1B

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract

irritation) - Category 3

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) -

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

**HNOC** - Defatting irritant

Composition/information on ingredients

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# Section 15. Regulatory information

| Name                                     | %           | Classification   |
|--|-------------|--|
| Solvent naphtha (petroleum), heavy arom. | ≥20 - ≤50   | FLAMMABLE LIQUIDS - Category 4 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 ASPIRATION HAZARD - Category 1 HNOC - Defatting irritant   |
| Hexamethylene diisocyanate, oligomers    | ≥20 - ≤50   | COMBUSTIBLE DUSTS ACUTE TOXICITY (inhalation) - Category 4 SKIN SENSITIZATION - Category 1A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3   |
| n-butyl acetate                          | ≥5.0 - ≤10  | FLAMMABLE LIQUIDS - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 HNOC - Defatting irritant  |
| naphthalene                              | ≥5.0 - ≤10  | FLAMMABLE SŎLIDS - Category 2 ACUTE TOXICITY (oral) - Category 4 CARCINOGENICITY - Category 1B SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2   |
| xylene                                   | ≥5.0 - ≤8.1 | FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 ASPIRATION HAZARD - Category 1   |
| ethylbenzene                             | <1.0        | FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (inhalation) - Category 4 CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 ASPIRATION HAZARD - Category 1 HNOC - Defatting irritant  |
| hexamethylene-di-isocyanate              | <1.0        | ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 3 ACUTE TOXICITY (inhalation) - Category 1 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A RESPIRATORY SENSITIZATION - Category 1A SKIN SENSITIZATION - Category 1A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 |

## **SARA 313**

|                       | <u>Chemical name</u> | <u>CAS number</u> | <u>Concentration</u> |
|-----------------------|----------------------|-------------------|----------------------|
| Supplier notification | : naphthalene        | 91-20-3           | 3 - 7                |
|                       | xylene               | 1330-20-7         | 3 - 7                |
|                       | ethylbenzene         | 100-41-4          | 0.1 - 1              |

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

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Product name MAP SLOW CATALYST

# Section 15. Regulatory information

Additional environmental information is contained on the Environmental Data Sheet for this product, which can be obtained from your PPG representative.

### California Prop. 65

MARNING: Cancer - www.P65Warnings.ca.gov.

## Section 16. Other information

**Hazardous Material Information System (U.S.A.)** 

Health: 3 \* Flammability: 3 Physical hazards: 0

(\*) - Chronic effects

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on MSDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

National Fire Protection Association (U.S.A.)

Health: 3 Flammability: 3 Instability: 0

Date of previous issue : 6/13/2020
Organization that prepared : EHS

the SDS

**Key to abbreviations** : ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973

as modified by the Protocol of 1978. ("Marpol" = marine pollution)

N/A = Not available SGG = Segregation Group UN = United Nations

Indicates information that has changed from previously issued version.

#### **Disclaimer**

The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by PPG, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.

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