# **SAFETY DATA SHEET**



**DIMETHYLANILINE (DMA)** 

### **Section 1. Identification**

GHS product identifier : DIMETHYLANILINE (DMA)

Product code : 1005

Chemical name : N,N-dimethylaniline

Other means of identification : Benzenamine, N,N-dimethyl-; Dimethylaniline; Dimethylaniline (N-Dimethyl-aniline);

N,N-Dimethylphenylamine; N,N-Dimethylbenzeneamine; Aniline, N,N-dimethyl-; N,N-Diethyl aniline; Dimethylphenylamine; N,N-Dimethylbenzenamine; Xylidene; NSC

7195

Product type : Liquid.

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

Industrial applications.

Supplier's details : NORTH AMERICAN COMPOSITES

300 Apollo Drive

Lino Lakes, MN 55014-3018

651.766.6892

Emergency telephone number (with hours of

operation)

: CHEMTREC 24-Hour Emergency Telephone

US and Canada 800.424.9300

Outside US and Canada +1 703.741.5970

## 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 4
ACUTE TOXICITY (oral) - Category 4
ACUTE TOXICITY (dermal) - Category 4

SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A CARCINOGENICITY - Category 2

**GHS label elements** 

Hazard pictograms





Signal word : Warning

Hazard statements : Combustible liquid.

Harmful if swallowed or in contact with skin.

Causes serious eye irritation.

Causes skin irritation.

Suspected of causing cancer.

**Precautionary statements** 

### Section 2. Hazards identification

**Prevention** 

: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves. Wear eye or face protection. Wear protective clothing. Keep away from flames and hot surfaces. - No smoking. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.

Response

: IF exposed or concerned: Get medical attention. IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse mouth. IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or physician if you feel unwell. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

**Storage** 

: Store in a well-ventilated place. Keep cool. Store containers in a safe place.

**Disposal** 

: Dispose of contents and container in accordance with all local, regional, national and international regulations. Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

Hazards not otherwise classified

None known.

# Section 3. Composition/information on ingredients

Substance/mixture

: Substance

**Chemical name** 

: N,N-dimethylaniline

Other means of identification

: Benzenamine, N,N-dimethyl-; Dimethylaniline; Dimethylaniline (N-Dimethyl-aniline); N,N-Dimethylphenylamine; N,N-Dimethylbenzenamine; Aniline, N,N-dimethyl-; N,N-Dimethylbenzenamine; Xylidene; NSC 7195

#### **CAS** number/other identifiers

**CAS number** : 121-69-7

Ingredient name	%	CAS number
N,N-Dimethylaniline	> 99.5	121-69-7

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

Any concentration shown as exact is based on formula.

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.

VOC content is listed in Section 9.

Environmental composition is shown in Section 15.

### Section 4. First aid measures

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

**Eye contact** 

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

Date of issue/Date of revision : 9/30/2018 Date of previous issue : No previous validation Version : 1 2/13

### Section 4. First aid measures

#### Inhalation

: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. 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.

#### **Skin contact**

: Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. If necessary, call a poison center or physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.

#### Ingestion

Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

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

### Potential acute health effects

**Eye contact** : Causes serious eye irritation.

Inhalation : No known significant effects or critical hazards.Skin contact : Harmful in contact with skin. Causes skin irritation.

**Ingestion**: Harmful if swallowed.

#### Over-exposure signs/symptoms

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

pain or irritation watering

redness

Inhalation : No specific data.

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

irritation redness

**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. 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)

Date of issue/Date of revision : 9/30/2018 Date of previous issue : No previous validation Version : 1 3/13

## Section 5. Fire-fighting measures

#### **Extinguishing media**

Suitable extinguishing media

: Use dry chemical, CO2, water spray (fog) or foam.

Unsuitable extinguishing media

: Do not use water jet.

nitrogen oxides

# Specific hazards arising from the chemical

: Combustible liquid. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back.

# Hazardous thermal decomposition products

: Decomposition products may include the following materials: carbon dioxide carbon monoxide

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. Dispose of via a licensed waste disposal contractor. Absorb with an inert material and transfer the spilled material and absorbent to an appropriate waste disposal container. Wear appropriate respirator when ventilation is inadequate. Wear eye/face protection.

#### 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. 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. Wear appropriate respiratory protection.

Date of issue/Date of revision : 9/30/2018 Date of previous issue : No previous validation Version : 1 4/13

### Section 6. Accidental release measures

Wear protective clothing and eye or face protection:

### Section 7. Handling and storage

#### **Precautions for safe handling**

**Protective measures** 

Put on appropriate personal protective equipment (see Section 8). 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 ingest. Avoid breathing vapor or mist. 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. Empty containers retain product residue and can be hazardous. Do not reuse container.

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

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. 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. See Section 10 for incompatible materials before handling or use. Store containers in a safe place.

### Section 8. Exposure controls/personal protection

#### **Control parameters**

Occupational exposure limits

Ingredient name	Exposure limits
N,N-Dimethylaniline	ACGIH TLV (United States, 3/2017). Absorbed through skin.  TWA: 5 ppm 8 hours.  TWA: 25 mg/m³ 8 hours.  STEL: 10 ppm 15 minutes.  STEL: 50 mg/m³ 15 minutes.  OSHA PEL 1989 (United States, 3/1989). Absorbed through skin.  TWA: 5 ppm 8 hours.  TWA: 25 mg/m³ 8 hours.  STEL: 10 ppm 15 minutes.  STEL: 50 mg/m³ 15 minutes.  NIOSH REL (United States, 10/2016). Absorbed through skin.  TWA: 5 ppm 10 hours.  TWA: 25 mg/m³ 10 hours.  STEL: 10 ppm 15 minutes.  STEL: 50 mg/m³ 15 minutes.  OSHA PEL (United States, 6/2016). Absorbed through skin.  TWA: 5 ppm 8 hours.  TWA: 25 mg/m³ 8 hours.

Date of issue/Date of revision : 9/30/2018 Date of previous issue : No previous validation Version : 1 5/13

### Section 8. Exposure controls/personal protection

# 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.

# **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. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection** 

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

#### Skin protection

**Hand protection** 

: 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.

**Body protection** 

: 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.

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

: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

### Section 9. Physical and chemical properties

#### **Appearance**

Physical state : Liquid. [Oily liquid.]
Color : Straw. Brown. Yellow.

Odor : Characteristic.
Odor threshold : Not available.
pH : Not available.

 Melting point
 : 1.5 to 2.5°C (34.7 to 36.5°F)

 Boiling point
 : 193 to 194°C (379.4 to 381.2°F)

 Flash point
 : Closed cup: 75°C (167°F)

Evaporation rate : Not available.

Lower and upper explosive (flammable) limits : Lower: 1% Upper: 7%

Date of issue/Date of revision: 9/30/2018Date of previous issue: No previous validationVersion: 1

### Section 9. Physical and chemical properties

: 0.067 kPa (0.5 mm Hg) [room temperature] Vapor pressure

Vapor density : 4.2 [Air = 1] **Relative density** 0.96

**Solubility** : Not available.

Solubility in water : 1.2 g/l Partition coefficient: n-: 1.171

octanol/water

**Auto-ignition temperature** : 317°C (602.6°F) **Viscosity** : Not available. Molecular weight : 121.2 g/mole

**VOC** content : 100 % (w/w) As shipped, including monomers and additives.

### Section 10. Stability and reactivity

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

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** 

: Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.

Keep away from heat and flame.

Incompatible materials

: Reactive or incompatible with the following materials:

oxidizing materials

Reactive or incompatible with the following materials: acids.

Incompatible with some strong acids. Incompatible with chloroformates. Incompatible

with halogens. Zinc.

**Hazardous decomposition** 

products

: Under normal conditions of storage and use, hazardous decomposition products should

not be produced.

### Section 11. Toxicological information

#### Information on toxicological effects

#### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
N,N-Dimethylaniline	LD50 Dermal	Rabbit	1770 mg/kg	-
	LD50 Oral	Rat	951 mg/kg	-

**Irritation/Corrosion** 

# **Section 11. Toxicological information**

Product/ingredient name	Result	Species	Score	Exposure	Observation
N,N-Dimethylaniline	Eyes - Moderate irritant	Rabbit	-	24 hours 20 milligrams	-
	Eyes - Moderate irritant	Rabbit	-	20 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500	-
				milligrams	
	Skin - Mild irritant	Rabbit	-	500 milligrams	-

#### **Sensitization**

Not available.

#### Mutagenicity

Not available.

#### Carcinogenicity

Not available.

#### Conclusion/Summary

**Classification** 

Product/ingredient name	OSHA	IARC	NTP
N,N-Dimethylaniline	-	3	-

#### **Reproductive toxicity**

Not available.

#### **Teratogenicity**

Not available.

#### Specific target organ toxicity (single exposure)

Not available.

#### Specific target organ toxicity (repeated exposure)

Not available.

#### **Aspiration hazard**

Not available.

Information on the likely

routes of exposure

: Not available.

#### Potential acute health effects

**Eye contact** : Causes serious eye irritation.

Inhalation : No known significant effects or critical hazards.Skin contact : Harmful in contact with skin. Causes skin irritation.

Ingestion : Harmful if swallowed.

### Symptoms related to the physical, chemical and toxicological characteristics

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

pain or irritation watering redness

Inhalation : No specific data.

Date of issue/Date of revision: 9/30/2018Date of previous issue: No previous validationVersion: 1

## **Section 11. Toxicological information**

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

irritation redness

**Ingestion** : No specific data.

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

**Short term exposure** 

Potential immediate

: Not available.

effects

Potential delayed effects : Not available.

**Long term exposure** 

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

General : No known significant effects or critical hazards.

Carcinogenicity : Suspected of causing cancer. Risk of cancer depends on duration and level of

exposure.

Mutagenicity: No known significant effects or critical hazards.Teratogenicity: No known significant effects or critical hazards.Developmental effects: No known significant effects or critical hazards.Fertility effects: No known significant effects or critical hazards.

#### **Numerical measures of toxicity**

#### **Acute toxicity estimates**

Not available.

## **Section 12. Ecological information**

#### **Toxicity**

Product/ingredient name	Result	Species	Exposure
	Acute EC50 22000 µg/l Fresh water Acute EC50 2.3 mg/l Fresh water Acute LC50 52600 µg/l Fresh water Chronic NOEC 14000 µg/l Fresh water	Daphnia - Daphnia magna Fish - Pimephales promelas	72 hours 48 hours 96 hours 72 hours

#### Persistence and degradability

Not available.

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
N,N-Dimethylaniline	1.171	16	low

#### **Mobility in soil**

Date of issue/Date of revision	: 9/30/2018	Date of previous issue	: No previous validation	Version : 1	9/13
--------------------------------	-------------	------------------------	--------------------------	-------------	------

## **Section 12. Ecological information**

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects

: No known significant effects or critical hazards.

### 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.

# **Section 14. Transport information**

	DOT Classification	Mexico Classification	TDG Classification	IATA	IMDG
UN number	UN2253	UN2253	UN2253	UN2253	UN2253
UN proper shipping name	N,N- Dimethylaniline (N,N- dimethylaniline)	N,N- Dimethylaniline (N,N- dimethylaniline)	N,N- Dimethylaniline (N,N- dimethylaniline)	N,N- Dimethylaniline (N,N- dimethylaniline)	N,N- Dimethylaniline (N,N- dimethylaniline)
Transport	6.1	6.1	6.1	6.1	6.1
hazard class(es)	POBON				
			¥2>		12
Packing group	II	II	II	II	II
Environmental hazards	No.	Yes. The environmentally hazardous substance mark is not required.	Yes.	Yes. The environmentally hazardous substance mark is not required.	Yes.

# Additional information DOT Classification

: <u>Reportable quantity</u> 100 lbs / 45.4 kg [12.549 gal / 47.504 L]. Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.

Date of issue/Date of revision : 9/30/2018 Date of previous issue : No previous validation Version : 1 10/13

### **Section 14. Transport information**

**TDG Classification** : Product classified as per the following sections of the Transportation of Dangerous

Goods Regulations: 2.26-2.36 (Class 6), 2.7 (Marine pollutant mark).

The marine pollutant mark is not required when transported by road or rail.

**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 available.

to Annex II of MARPOL and

the IBC Code

### Section 15. Regulatory information

**U.S. Federal regulations** : TSCA 8(a) PAIR: N,N-dimethylaniline

TSCA 8(a) CDR Exempt/Partial exemption: Not determined

Clean Air Act Section 112

(b) Hazardous Air **Pollutants (HAPs)**  : Listed

Clean Air Act Section 602

Class I Substances

: Not listed

Clean Air Act Section 602

: Not listed

Class II Substances

**SARA 302/304** 

#### **Composition/information on ingredients**

No products were found.

SARA 304 RQ : Not applicable.

**SARA 311/312** 

Classification : FLAMMABLE LIQUIDS - Category 4

ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4

SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A CARCINOGENICITY - Category 2

#### **SARA 313**

	Product name	CAS number	%
Form R - Reporting requirements	N,N-dimethylaniline	121-69-7	100.00
Supplier notification	N,N-dimethylaniline	121-69-7	100.00

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.

Any concentration shown as exact is based on formula.

State regulations

Massachusetts : This material is listed. **New York** : This material is listed. This material is listed. **New Jersey** 

Date of issue/Date of revision : 9/30/2018 Version Date of previous issue : No previous validation 11/13

### **Section 15. Regulatory information**

Pennsylvania : This material is listed.

California Prop. 65 : The following components are listed. For more information go to www.P65Warnings.ca.gov.

1005

#### **Inventory list**

Australia : This material is listed or exempted.

Canada : This material is listed or exempted.

China : This material is listed or exempted.

Europe : This material is listed or exempted.

Japan : Japan inventory (ENCS): This material is listed or exempted.

Japan inventory (ISHL): Not determined.

Malaysia : This material is listed or exempted.
 New Zealand : This material is listed or exempted.
 Philippines : This material is listed or exempted.
 Republic of Korea : This material is listed or exempted.
 Taiwan : This material is listed or exempted.

Thailand : Not determined.

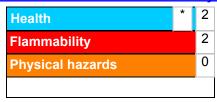
Turkey : Not determined.

United States : This material is listed or exempted.

Viet Nam : Not determined.

### Section 16. Other information

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



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 SDSs 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.)



Reprinted with permission from NFPA 704-2001, Identification of the Hazards of Materials for Emergency Response Copyright ©1997, National Fire Protection Association, Quincy, MA 02269. This reprinted material is not the complete and official position of the National Fire Protection Association, on the referenced subject which is represented only by the standard in its entirety.

Date of issue/Date of revision : 9/30/2018 Date of previous issue : No previous validation Version : 1 12/13

### **Section 16. Other information**

Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

#### Procedure used to derive the classification

Classification	Justification
FLAMMABLE LIQUIDS - Category 4	On basis of test data
ACUTE TOXICITY (oral) - Category 4	According to package
ACUTE TOXICITY (dermal) - Category 4	According to package
SKIN IRRITATION - Category 2	According to package
EYE IRRITATION - Category 2A	According to package
CARCINOGENICITY - Category 2	According to package

#### **History**

Date of printing : 10/16/2018 Date of issue/Date of : 9/30/2018

revision

Date of previous issue : No previous validation

Version : 1 New form 08-2018

Prepared by : Health, Safety and Environmental Department

For questions about the

SDS, contact

: iasafety@ip-corporation.com

**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)

**UN = United Nations** 

References : 29 CFR 1910.1200 Hazard Communication Standard, March 2012

CCR Title 27 Division 4 Office of Environmental Health Hazard Assessment (California

Prop. 65)

American Composites Manufacturers Association

Styrene Information and Research Center

Indicates information that has changed from previously issued version.

#### **Notice to reader**

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Date of issue/Date of revision : 9/30/2018 Date of previous issue : No previous validation Version : 1 13/13