

## SAFETY DATA SHEET

## THE DOW CHEMICAL COMPANY\*

Product name: PARALOID™ NAD-10-V Resin

Issue Date: 04/11/2016
Print Date: 04/26/2019

THE DOW CHEMICAL COMPANY\* encourages and expects you to read and understand the entire (M)SDS, as there is important information throughout the document. We expect you to follow the precautions identified in this document unless your use conditions would necessitate other appropriate methods or actions.

## 1. IDENTIFICATION

Product name: PARALOID™ NAD-10-V Resin

Recommended use of the chemical and restrictions on use

Identified uses: Coatings product

**COMPANY IDENTIFICATION** 

THE DOW CHEMICAL COMPANY\*
Agent for Rohm and Haas Chemicals LLC
400 ARCOLA ROAD
COLLEGEVILLE PA 19426-2914
UNITED STATES

Customer Information Number: 800-258-2436

SDSQuestion@dow.com

**EMERGENCY TELEPHONE NUMBER** 

**24-Hour Emergency Contact:** 1 800 424 9300 **Local Emergency Contact:** 800-424-9300

#### 2. HAZARDS IDENTIFICATION

#### Hazard classification

This material is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.

Flammable liquids - Category 2

Skin irritation - Category 2

Reproductive toxicity - Category 2

Specific target organ toxicity - single exposure - Category 3

Label elements Hazard pictograms



Signal word: DANGER!

#### **Hazards**

Highly flammable liquid and vapour.

Causes skin irritation.

May cause drowsiness or dizziness.

Suspected of damaging fertility or the unborn child.

## **Precautionary statements**

#### 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 dust/ fume/ gas/ mist/ vapours/ spray.

Wash skin thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Wear protective gloves/ protective clothing/ eye protection/ face protection.

#### Response

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.

IF exposed or concerned: Get medical advice/ attention.

If skin irritation occurs: Get medical advice/ attention.

Take off contaminated clothing and wash before reuse.

In case of fire: Use dry sand, dry chemical or alcohol-resistant foam 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 to an approved waste disposal plant.

#### Other hazards

No data available

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

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Chemical nature: Acrylic polymer solvent based

This product is a mixture.

Component	CASRN	Concentration
Modified acrylic polymer	Not Hazardous	39.0 - 41.0 %
Individual acrylic monomers	Not Required	<= 0.2 %
Naphtha, light aliphatic	64742-89-8	59.0 - 61.0 %
Isobutyl methacrylate	97-86-9	< 0.2 %
Toluene	108-88-3	< 1.0 %

## Note

Naphtha, light aliphatic:

The classification as a carcinogen or mutagen need not to apply because the substance contains less than 0.1% w/w benzene (EINECS No 200-753-7). Note P of Annex VI to Regulation (EC) 1272/2008.

## 4. FIRST AID MEASURES

## **Description of first aid measures**

Inhalation: Move to fresh air.

Skin contact: Take off all contaminated clothing immediately. Wash affected skin areas thoroughly with soap and water. If skin irritation persists, call a physician. Wash contaminated clothing before reuse. Do not take clothing home to be laundered.

**Eye contact:** Rinse with plenty of water. If eye irritation persists, consult a specialist.

Ingestion: Drink 1 or 2 glasses of water. Call a physician immediately. Do not induce vomiting: contains petroleum distillates and/or aromatic solvents. Careful gastric lavage may be indicated. Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed: Aside from the information found under Description of first aid measures (above) and Indication of immediate medical attention and special treatment needed (below), any additional important symptoms and effects are described in Section 11: Toxicology Information.

## Indication of any immediate medical attention and special treatment needed Notes to physician: Product contains a petroleum distillate that may cause CNS symptoms. If swallowed, DO NOT induce vomiting due to the risk of aspiration posed by petroleum distillates. If swallowed, careful evacuation of the stomach is advisable.

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## 5. FIREFIGHTING MEASURES

Suitable extinguishing media: Foam Carbon dioxide (CO2) Dry powder Water spray

Unsuitable extinguishing media: No data available

Special hazards arising from the substance or mixture

Hazardous combustion products: Heating or fire conditions liberates toxic gas.

**Unusual Fire and Explosion Hazards:** Vapors can travel to a source of ignition and flash back. Heated material can form flammable or explosive vapors with air. Closed containers may rupture via pressure build-up when exposed to fire or extreme heat.

#### Advice for firefighters

**Fire Fighting Procedures:** For safety reasons in case of fire, containers should be stored separately in closed containments. Cool closed containers exposed to fire with water spray. In the event of fire and/or explosion do not breathe fumes. Remain upwind. Avoid breathing smoke.

**Special protective equipment for firefighters:** Wear self-contained breathing apparatus and protective suit.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures:** Appropriate protective equipment must be worn when handling a spill of this material. See SECTION 8, Exposure Controls/Personal Protection, for recommendations. If exposed to material during clean-up operations, see SECTION 4, First Aid Measures, for actions to follow.

Environmental precautions: Do not flush into surface water or sanitary sewer system.

**Methods and materials for containment and cleaning up:** Evacuate personnel to safe areas. Eliminate all ignition sources including those beyond the immediate spill area. Ventilate the area. Avoid breathing vapor. Floor may be slippery; use care to avoid falling. Contain spills immediately with inert materials (e.g., sand, earth). Transfer liquids and solid diking material to separate suitable containers for recovery or disposal. CAUTION: Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

## 7. HANDLING AND STORAGE

**Precautions for safe handling:** Provide sufficient air exchange and/or exhaust in work rooms. Avoid exceeding the given occupational exposure limits (see section 8). In case of insufficient ventilation, wear suitable respiratory equipment. Do not breathe vapours or spray mist.

Conditions for safe storage: Avoid temperature extremes during storage; ambient temperature preferred. Keep away from heat and sources of ignition. Material can burn; limit indoor storage to approved areas equipped with automatic sprinklers. Avoid all ignition sources. Keep container tightly closed when not in use. Ground all metal containers during storage and handling. Store away from excessive heat (e.g. steampipes,radiators), from sources of ignition and from reactive materials. Keep away from direct sunlight. Store in a cool, dry, well ventilated place.

**Other data:** Vapors can be evolved when material is heated during processing operations. See SECTION 8, Exposure Controls/Personal Protection, for types of ventilation required. Ground all

containers when transferring material. Use non-sparking tools and grounding cables when transferring. CONTAINERS MAY BE HAZARDOUS WHEN EMPTY. Since emptied containers retain product residue follow all MSDS and label warnings even after container is emptied. Residual vapors in empty containers may explode on ignition. DO NOT cut, drill, grind or weld on or near container.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Control parameters**

Exposure limits are listed below, if they exist.

Component	Regulation	Type of listing	Value/Notation
Naphtha, light aliphatic	Dow IHG	TWA	100 ppm
	Dow IHG	STEL	125 ppm
	OSHA Z-1	TWA	2,000 mg/m3 500 ppm
Isobutyl methacrylate	Dow IHG	TWA	50 ppm
	Dow IHG	STEL	75 ppm
Toluene	ACGIH	TWA	20 ppm
	OSHA Z-2	TWA	200 ppm
	ACGIH	TWA	BEI
	OSHA Z-2	CEIL	300 ppm
	OSHA Z-2	Peak	500 ppm
	CAL PEL	PEL	37 mg/m3 10 ppm
	CAL PEL	С	500 ppm
	CAL PEL	STEL	560 mg/m3 150 ppm

#### **Exposure controls**

**Engineering controls:** Use explosion-proof local exhaust ventilation with a minimum capture velocity of 100 ft/min (0.5 m/sec) at the point of vapor evolution. Refer to the current edition of Industrial Ventilation: A Manual of Recommended Practice published by the American Conference of Governmental Industrial Hygienists for information on the design, installation, use, and maintenance of exhaust systems.

**Hygiene measures:** Wash hands before breaks and immediately after handling the product.

**Protective measures:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

## Individual protection measures

**Eye/face protection:** Use chemical splash goggles and face shield (ANSI Z87.1 or approved equivalent). Eye protection worn must be compatible with respiratory protection system employed.

#### Skin protection

**Hand protection:** Chemical-resistant gloves should be worn whenever this material is handled. The glove(s) listed below may provide protection against permeation. (Gloves of other chemically resistant materials may not provide adequate protection): Neoprene gloves Gloves should be removed and replaced immediately if there is any indication of degradation or chemical breakthrough. Rinse and remove gloves immediately after use. Wash hands with soap and water.

**Respiratory protection:** A respiratory protection program meeting OSHA 1910.134 and ANSI Z88.2 requirements or equivalent must be followed whenever workplace conditions warrant a respirator's use. None required if airborne concentrations are maintained below the exposure limit listed in Exposure Limit Information. Up to 1000 ppm organic vapor: Wear a properly fitted NIOSH approved (or equivalent) full-facepiece, air-purifying respirator, OR full facepiece, airline respirator in the pressure demand mode. Above 1000 ppm organic vapor or Unknown:

Wear a properly fitted NIOSH approved (or equivalent) self-contained breathing apparatus in the pressure demand mode, OR full-facepiece, airline respirator in the pressure demand mode with emergency escape provision. Air-purifying respirators should be equipped with NIOSH approved (or equivalent) organic vapor cartridges and N95 filters. If oil mist is present, use R95 or P95 filters.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance** 

Physical state liquid Milky
Color white

Odor hydrocarbon-like
Odor Threshold No data available
pH Not applicable

Melting point/range  $> 50.00 \,^{\circ}\text{C} \, (> 122.00 \,^{\circ}\text{F})$ 

Freezing point No data available

Boiling point (760 mmHg) 116.00 - 141.00 °C (240.80 - 285.80 °F) Solvent, naphtha

Flash point 10 °C (50 °F) Tag closed cup

**Evaporation Rate (Butyl Acetate** 

= 1)

Flammability (solid, gas) Not Applicable

>1.00

Lower explosion limit0.90 % vol Solvent, naphthaUpper explosion limit6.00 % vol Solvent, naphtha

Vapor Pressure 4.4 mmHg at 20.00 °C (68.00 °F) Solvent, naphtha

Relative Vapor Density (air = 1) >1.0000 Relative Density (water = 1) 0.850

Water solubility practically insoluble Partition coefficient: n- No data available

octanol/water

Auto-ignition temperatureNo data availableDecomposition temperatureNo data available

**Dynamic Viscosity** 400.000 - 1,200.000 mPa.s

Kinematic Viscosity

Explosive properties

Oxidizing properties

Molecular weight

Percent volatility

No data available

No data available

59.000 - 61.000 %

NOTE: The physical data presented above are typical values and should not be construed as a specification.

## 10. STABILITY AND REACTIVITY

Reactivity: No data available

Product name: PARALOID™ NAD-10-V Resin

Chemical stability: No data available

Possibility of hazardous reactions: None known.

Product will not undergo polymerization.

However, avoid contact with ignition sources (e.g. sparks, open flame, heated surfaces).

Conditions to avoid: No data available

Incompatible materials: Strong acids and oxidizing agents

**Hazardous decomposition products:** No decomposition if stored and applied as directed. Heating or fire conditions liberates toxic gas.

#### 11. TOXICOLOGICAL INFORMATION

Toxicological information appears in this section when such data is available.

## **Acute toxicity**

#### Acute oral toxicity

Product test data not available. Refer to component data.

#### **Acute dermal toxicity**

Product test data not available. Refer to component data.

#### Acute inhalation toxicity

Product test data not available. Refer to component data.

#### Skin corrosion/irritation

Product test data not available. Refer to component data.

#### Serious eye damage/eye irritation

Product test data not available. Refer to component data.

#### Sensitization

Product test data not available. Refer to component data.

## **Specific Target Organ Systemic Toxicity (Single Exposure)**

Product test data not available. Refer to component data.

## Specific Target Organ Systemic Toxicity (Repeated Exposure)

Product test data not available. Refer to component data.

#### Carcinogenicity

Product test data not available. Refer to component data.

#### **Teratogenicity**

Product test data not available. Refer to component data.

#### Reproductive toxicity

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Product test data not available. Refer to component data.

## Mutagenicity

Product test data not available. Refer to component data.

#### **Aspiration Hazard**

Based on physical properties, not likely to be an aspiration hazard.

#### Additional information

No data is available on the product itself.

## **COMPONENTS INFLUENCING TOXICOLOGY:**

## Naphtha, light aliphatic

#### **Acute oral toxicity**

LD50, Rat, male and female, > 5,000 mg/kg

#### **Acute dermal toxicity**

LD50, Rabbit, > 2,000 mg/kg No deaths occurred at this concentration.

## Acute inhalation toxicity

Excessive exposure may cause irritation to upper respiratory tract (nose and throat) and lungs. May cause central nervous system effects. Symptoms may include headache, dizziness and drowsiness, progressing to incoordination and unconsciousness. LC50, Rat, male and female, 4 Hour, vapour, > 5.61 mg/l No deaths occurred following exposure to a saturated atmosphere.

#### Skin corrosion/irritation

Brief contact may cause moderate skin irritation with local redness.

Repeated contact may cause severe skin burns. Symptoms may include pain, severe local redness and tissue damage.

#### Serious eye damage/eye irritation

May cause slight eye irritation.

Corneal injury is unlikely.

Vapor may cause eye irritation experienced as mild discomfort and redness.

#### **Sensitization**

Did not cause allergic skin reactions when tested in guinea pigs.

For respiratory sensitization:

No relevant data found.

## **Specific Target Organ Systemic Toxicity (Single Exposure)**

May cause drowsiness or dizziness.

Route of Exposure: Inhalation

## **Specific Target Organ Systemic Toxicity (Repeated Exposure)**

In animals, effects have been reported on the following organs:

Kidney.

Liver.

## Carcinogenicity

Did not cause cancer in laboratory animals.

#### **Teratogenicity**

Has been toxic to the fetus in laboratory animals at doses toxic to the mother. Did not cause birth defects in laboratory animals.

#### Reproductive toxicity

In animal studies, did not interfere with reproduction.

## Mutagenicity

In vitro genetic toxicity studies were negative in some cases and positive in other cases. Animal genetic toxicity studies were negative.

#### Isobutyl methacrylate

#### **Acute oral toxicity**

LD50, Rat, > 9,590 mg/kg

#### Acute dermal toxicity

LD50, Rabbit, > 3,000 mg/kg

## Acute inhalation toxicity

Brief exposure (minutes) is not likely to cause adverse effects. May cause respiratory tract irritation.

LC50, Mouse, 4 Hour, vapour, 29.7 mg/l

#### Skin corrosion/irritation

Brief contact may cause moderate skin irritation with local redness.

Prolonged contact may cause severe skin irritation with local redness and discomfort.

#### Serious eye damage/eye irritation

May cause moderate eye irritation.

Corneal injury is unlikely.

## Sensitization

Skin contact may cause an allergic skin reaction.

For respiratory sensitization:

No relevant data found.

#### **Specific Target Organ Systemic Toxicity (Single Exposure)**

May cause respiratory irritation. Route of Exposure: Inhalation Target Organs: Respiratory Tract

## **Specific Target Organ Systemic Toxicity (Repeated Exposure)**

No relevant information found.

#### Carcinogenicity

Not classifiable as a human carcinogen.

#### **Teratogenicity**

For similar material(s): Did not show teratogenic effects in animal experiments.

## Reproductive toxicity

In animal studies, a similar material has been shown not to interfere with reproduction.

#### Mutagenicity

In vitro genetic toxicity studies were negative. Animal genetic toxicity studies were negative.

#### **Toluene**

#### **Acute oral toxicity**

LD50, Rat, 5,580 mg/kg

#### Acute dermal toxicity

LD50, Rabbit, 12,267 mg/kg

#### Acute inhalation toxicity

LC50, Rat, male and female, 4 Hour, vapour, > 20 mg/l

#### Skin corrosion/irritation

Brief contact may cause slight skin irritation with local redness.

Prolonged contact may cause moderate skin irritation with local redness.

May cause drying and flaking of the skin.

## Serious eye damage/eye irritation

May cause slight eye irritation.

May cause slight temporary corneal injury.

Vapor may cause eye irritation experienced as mild discomfort and redness.

Vapor may cause lacrimation (tears).

#### Sensitization

Did not cause allergic skin reactions when tested in guinea pigs.

For respiratory sensitization:

No relevant data found.

## **Specific Target Organ Systemic Toxicity (Single Exposure)**

May cause drowsiness or dizziness.

Route of Exposure: Inhalation

Target Organs: Central nervous system

## **Specific Target Organ Systemic Toxicity (Repeated Exposure)**

In animals, effects have been reported on the following organs:

central nervous system (CNS) effects

Excessive exposure may cause neurologic signs and symptoms.

Toluene has caused hearing loss in laboratory animals upon exposure to high concentrations.

Intentional misuse by deliberately inhaling toluene may cause nervous system damage,

hearing loss, liver and kidney effects and death.

## Carcinogenicity

Did not cause cancer in laboratory animals.

#### **Teratogenicity**

In laboratory animals, toluene has been toxic to the fetus at doses toxic to the mother; it has caused birth defects in mice when administered orally, but not by inhalation.

## Reproductive toxicity

In animal studies, did not interfere with reproduction.

#### Mutagenicity

The majority and most reliable of the many genetic toxicity studies on toluene, both in vitro and in animals, indicate that it is not genetically toxic.

## 12. ECOLOGICAL INFORMATION

Ecotoxicological information appears in this section when such data is available.

#### **General Information**

There is no data available for this product.

## **Toxicity**

#### Naphtha, light aliphatic

#### Acute toxicity to fish

Material is moderately toxic to aquatic organisms on an acute basis (LC50/EC50 between 1 and 10 mg/L in the most sensitive species tested).

LC50, Pimephales promelas (fathead minnow), semi-static test, 96 Hour, 8.2 mg/l

#### Acute toxicity to aquatic invertebrates

EC50, Daphnia magna, static test, 48 Hour, 4.8 mg/l

## Acute toxicity to algae/aquatic plants

ErC50, Selenastrum capricornutum (green algae), static test, 72 Hour, Growth rate, 3.1 mg/l, OECD Test Guideline 201

#### Chronic toxicity to aquatic invertebrates

NOEC, Daphnia magna (Water flea), 21 d, 2.6 mg/l

#### **Isobutyl methacrylate**

#### Acute toxicity to fish

Material is slightly toxic to aquatic organisms on an acute basis (LC50/EC50 between 10 and 100 mg/L in the most sensitive species tested).

LC50, Oncorhynchus mykiss (rainbow trout), flow-through, 96 Hour, 20 mg/l

## Acute toxicity to aquatic invertebrates

EC50, Daphnia magna (Water flea), flow-through test, 48 Hour, > 29 mg/l

#### Acute toxicity to algae/aquatic plants

ErC50, Pseudokirchneriella subcapitata (green algae), 72 Hour, Growth rate inhibition, 16 mg/l

## **Toluene**

#### Acute toxicity to fish

Material is moderately toxic to aquatic organisms on an acute basis (LC50/EC50 between 1 and 10 mg/L in the most sensitive species tested).

LC50, Oncorhynchus mykiss (rainbow trout), semi-static test, 96 Hour, 5.8 mg/l

LC50, Fish, flow-through test, 96 Hour, 5.5 mg/l

## Acute toxicity to aquatic invertebrates

EC50, Daphnia magna (Water flea), static test, 24 Hour, 7 mg/l, OECD Test Guideline 202 LC50, water flea Ceriodaphnia dubia, semi-static test, 48 Hour, 3.78 mg/l

#### Acute toxicity to algae/aquatic plants

EbC50, Pseudokirchneriella subcapitata (green algae), 72 Hour, Biomass, 12.5 mg/l, OECD Test Guideline 201

## Toxicity to bacteria

IC50, Bacteria, 16 Hour, 29 mg/l

## Chronic toxicity to fish

NOEC, Fish, flow-through test, 40 d, growth, 1.4 mg/l

#### Chronic toxicity to aquatic invertebrates

NOEC, Ceriodaphnia dubia (water flea), 7 d, number of offspring, 0.74 mg/l NOEC, Daphnia magna (Water flea), 21 day, number of offspring, 2 mg/l

## Toxicity to soil-dwelling organisms

LC50, Eisenia fetida (earthworms), 150 - 280 mg/kg

#### Persistence and degradability

#### Naphtha, light aliphatic

Biodegradability: No relevant data found.

#### Isobutyl methacrylate

Biodegradability: Material is readily biodegradable. Passes OECD test(s) for ready

biodegradability.

10-day Window: Not applicable

Biodegradation: 88 % Exposure time: 28 d

Method: OECD Test Guideline 301C or Equivalent

## **Toluene**

Biodegradability: Material is readily biodegradable. Passes OECD test(s) for ready

biodegradability.

10-day Window: Not applicable **Biodegradation:** 100 % **Exposure time:** 14 d

Method: OECD Test Guideline 301C or Equivalent

Theoretical Oxygen Demand: 3.13 mg/mg Calculated.

## Photodegradation

Test Type: Half-life (indirect photolysis)

Sensitizer: OH radicals Atmospheric half-life: 2 d Method: Estimated.

## **Bioaccumulative potential**

#### Naphtha, light aliphatic

Bioaccumulation: No relevant data found.

#### Isobutyl methacrylate

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**Bioaccumulation:** Bioconcentration potential is low (BCF < 100 or Log Pow < 3).

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Partition coefficient: n-octanol/water(log Pow): 2.66

## **Toluene**

**Bioaccumulation:** Bioconcentration potential is low (BCF < 100 or Log Pow < 3).

Partition coefficient: n-octanol/water(log Pow): 2.73 Measured Bioconcentration factor (BCF): 13.2 - 90 Fish Measured

## Mobility in soil

#### Naphtha, light aliphatic

No relevant data found.

#### Isobutyl methacrylate

Potential for mobility in soil is medium (Koc between 150 and 500).

Partition coefficient (Koc): 878 Estimated.

#### **Toluene**

Potential for mobility in soil is very high (Koc between 0 and 50).

Partition coefficient (Koc): 37 - 178 Estimated.

## 13. DISPOSAL CONSIDERATIONS

**Disposal methods:** Incinerate liquid and contaminated solids in accordance with local, state, and federal regulations.

## 14. TRANSPORT INFORMATION

#### DOT

Proper shipping name Coating solution UN number UN 1139

Class 3 Packing group II

#### Classification for SEA transport (IMO-IMDG):

Proper shipping name COATING SOLUTION

UN 1139 Class 3

Packing group

Marine pollutant Naphtha, light aliphatic

Transport in bulk Consult IMO regulations before transporting ocean bulk

according to Annex I or II of MARPOL 73/78 and the

**IBC or IGC Code** 

## Classification for AIR transport (IATA/ICAO):

Proper shipping name Coating solution

UN 1139 Class 3

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Packing group ||

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

#### 15. REGULATORY INFORMATION

#### **OSHA Hazard Communication Standard**

This product is considered hazardous under the OSHA Hazard Communication Standard (29 CFR 1910.1200).

# Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Sections 311 and 312

Acute Health Hazard Chronic Health Hazard Fire Hazard

# Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Section 313

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

## Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) Section 103

ComponentsCASRNRQToluene108-88-31000 lbs RQ

#### Pennsylvania

Any material listed as "Not Hazardous" in the CAS REG NO. column of SECTION 2, Composition/Information On Ingredients, of this MSDS is a trade secret under the provisions of the Pennsylvania Worker and Community Right-to-Know Act.

#### California (Proposition 65)

This product contains a component or components known to the state of California to cause birth defects or other reproductive harm:

Components CASRN
Toluene 108-88-3

#### **United States TSCA Inventory (TSCA)**

All components of this product are in compliance with the inventory listing requirements of the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

## 16. OTHER INFORMATION

## **Hazard Rating System**

#### **HMIS**

Healtl	n Flammabilit	Physical Hazard
2*	3	0

<sup>\* =</sup> Chronic Effects (See Hazards Identification)

#### Revision

Identification Number: 101100209 / 1001 / Issue Date: 04/11/2016 / Version: 4.0 Most recent revision(s) are noted by the bold, double bars in left-hand margin throughout this document.

## Legend

ACGIH	USA. ACGIH Threshold Limit Values (TLV)
BEI	Biological Exposure Indices
С	Ceiling
CAL PEL	California permissible exposure limits for chemical contaminants (Title 8, Article
	107)
CEIL	Acceptable ceiling concentration
Dow IHG	Dow Industrial Hygiene Guideline
OSHA Z-1	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air
	Contaminants
OSHA Z-2	USA. Occupational Exposure Limits (OSHA) - Table Z-2
Peak	Acceptable maximum peak above the acceptable ceiling concentration for an 8-hr
	shift
PEL	Permissible exposure limit
STEL	Short term exposure limit
TWA	Time weighted average

#### Information Source and References

This SDS is prepared by Product Regulatory Services and Hazard Communications Groups from information supplied by internal references within our company.

THE DOW CHEMICAL COMPANY\* urges each customer or recipient of this (M)SDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this (M)SDS and any hazards associated with the product. The information herein is provided in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ between various locations. It is the buyer's/user's responsibility to ensure that his activities comply with all federal, state, provincial or local laws. The information presented here pertains only to the product as shipped. Since conditions for use of the product are not under the control of the manufacturer, it is the buyer's/user's duty to determine the conditions necessary for the safe use of this product. Due to the proliferation of sources for information such as manufacturer-specific (M)SDSs, we are not and cannot be responsible for (M)SDSs obtained from any source other than ourselves. If you have obtained an (M)SDS from another source or if you are not sure that the (M)SDS you have is current, please contact us for the most current version.