

# **SAFETY DATA SHEET**

Published Date Dec-06-2019 Revision Date Dec-06-2019 Revision Number 2.5

# 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier Product code Product name

Product category

NSC15 UV 16 Signature White Ink Product

Other means of identification Synonyms

Recommended use of the chemical and restrictions on useRecommended usePrinting operations

None

### Details of the supplier of the safety data sheet

UNITED STATES Nazdar Company 8501 Hedge Lane Terrace Shawnee, KS 66227 Tel: +001-913-422-1888 Tel: +001-800-677-4657 Fax: +001-913-422-2294 www.nazdar.com UNITED KINGDOM Nazdar Limited Barton Road Heaton Mersey Stockport, England SK4 3EG Tel: +44 161 442 2111

### Emergency telephone number

USA: Chemtrec: +001-800-424-9300 Outside USA: Chemtrec: +001-703-527-3887 24 Hour Emergency Phone Number

# 2. HAZARDS IDENTIFICATION

### **Classification**

| Skin Corrosion/Irritation                          | Category 2 - (H315)    |
|----------------------------------------------------|------------------------|
| Serious eye damage/eye irritation                  | Category 2 - (H319)    |
| Skin sensitization                                 | Category 1A - (H317)   |
| Reproductive toxicity                              | Category 1B - (H360FD) |
| Specific target organ toxicity (repeated exposure) | Category 1 - (H372)    |
| Chronic aquatic toxicity                           | Category 3 - (H412)    |

### Label elements



Danger

Hazard Statements

H315 - Causes skin irritation H317 - May cause an allergic skin reaction H319 - Causes serious eye irritation

H372 - Causes damage to organs through prolonged or repeated exposure

H412 - Harmful to aquatic life with long lasting effects

H360FD - May damage fertility. May damage the unborn child

### **Precautionary Statements**

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P337 + P313 - If eye irritation persists: Get medical advice/attention

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray

P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention

P202 - Do not handle until all safety precautions have been read and understood

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P308 + P313 - IF exposed or concerned: Get medical advice/attention

P264 - Wash face, hands and any exposed skin thoroughly after handling

P270 - Do not eat, drink or smoke when using this product

P314 - Get medical advice/attention if you feel unwell

P273 - Avoid release to the environment

# Hazards not otherwise classified (HNOC)

Harmful to aquatic life.

# **3. COMPOSITION/INFORMATION ON INGREDIENTS**

### <u>Mixture</u>

| Component                | CAS-No       | Weight % | Trade<br>Secret | Note |
|--------------------------|--------------|----------|-----------------|------|
| Acrylated Monomer        | Trade Secret | 10 - 30  | *               |      |
| Talc                     | 14807-96-6   | 10 - 30  | *               |      |
| Titanium dioxide         | 13463-67-7   | 10 - 30  | *               |      |
| Glycol Ether Acrylate    | Trade Secret | 10 - 30  | *               |      |
| Vinyl Functional Monomer | Trade Secret | 10 - 30  | *               |      |
| Photoinitiator           | Trade Secret | 1 - 5    | *               |      |
| Acrylated Monomer        | Trade Secret | 1 - 5    | *               |      |
| Photoinitiator           | Trade Secret | 1 - 5    | *               |      |

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

# 4. FIRST AID MEASURES

# Description of first aid measures

| General Advice<br>Eye Contact | Show this safety data sheet to the doctor in attendance.<br>Immediately flush with plenty of water. After initial flushing, remove any contact lenses and<br>continue flushing for at least 15 minutes. Get medical attention if irritation develops and<br>persists. |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Skin Contact                  | Wash off immediately with soap and plenty of water for at least 15 minutes. Remove contaminated clothing. If irritation (redness, rash, blistering) develops, get medical attention.                                                                                  |
| Inhalation                    | Remove person to fresh air and keep comfortable for breathing. If breathing is irregular or stopped, administer artificial respiration. Get medical attention immediately.                                                                                            |
| Ingestion                     | Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately.                                                                                                                                 |

Most important symptoms and effects, both acute and delayed

None under normal use conditions.

### Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

# **5. FIRE-FIGHTING MEASURES**

### Suitable Extinguishing Media

Foam. Carbon dioxide (CO2). Dry chemical. Water spray. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

### Unsuitable Extinguishing Media

No information available.

## Specific Hazards Arising from the Chemical

Thermal decomposition can lead to release of irritating gases and vapors. May emit toxic fumes under fire conditions. Hazardous polymerization may take place during a fire due to heat. Closed containers could violently rupture.

### **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Cool containers / tanks with water spray. Sealed containers may rupture when heated.

# 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

Personal Precautions

Remove all sources of ignition. Ventilate the area. Avoid contact with eyes, skin and clothing. Avoid breathing dust or vapor. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

### Environmental precautions

Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. Keep out of drains, sewers, ditches and waterways. Local authorities should be advised if significant spillages cannot be contained.

### Methods and material for containment and cleaning up

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Use clean non-sparking tools to collect absorbed material.

# 7. HANDLING AND STORAGE

### Precautions for safe handling

| Handling | Use personal protective equipment as required. Do not eat, drink or smoke when using this |
|----------|-------------------------------------------------------------------------------------------|
|          | product. Ensure adequate ventilation.                                                     |

### Conditions for safe storage, including any incompatibilities

**Storage** Keep at temperatures between 18°-32°C (65°-90°F). Keep containers tightly closed in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep out of the reach of children. Protect from direct sunlight. Keep away from open flames, hot surfaces and sources of ignition.

Incompatible Products

Strong acids. Strong bases. Strong oxidizing agents. Reducing agent.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

### Exposure limits

| Component        | ACGIH TLV                                                              |
|------------------|------------------------------------------------------------------------|
| Talc             | TWA: 2 mg/m <sup>3</sup> particulate matter containing no asbestos and |
| 14807-96-6       | <1% crystalline silica, respirable particulate matter                  |
| Titanium dioxide | TWA: 10 mg/m <sup>3</sup>                                              |
| 13463-67-7       |                                                                        |

| Component        | OSHA PEL                             |
|------------------|--------------------------------------|
| Titanium dioxide | TWA: 15 mg/m <sup>3</sup> total dust |
| 13463-67-7       |                                      |

| Component        | OSHA PEL (vacated)                       |  |
|------------------|------------------------------------------|--|
| Talc             | TWA: 2 mg/m <sup>3</sup> respirable dust |  |
| 14807-96-6       |                                          |  |
| Titanium dioxide | TWA: 10 mg/m <sup>3</sup> total dust     |  |
| 13463-67-7       |                                          |  |

| Component        | Ontario TWAEV                       |
|------------------|-------------------------------------|
| Talc             | TWA: 2 mg/m <sup>3</sup> respirable |
| 14807-96-6       |                                     |
| Titanium dioxide | TWA: 10 mg/m <sup>3</sup>           |
| 13463-67-7       | -                                   |

| Component        | Mexico OEL (TWA)                                     |
|------------------|------------------------------------------------------|
| Talc             | TWA/VLE-PPT: 2 mg/m <sup>3</sup> respirable fraction |
| 14807-96-6       |                                                      |
| Titanium dioxide | TWA/VLE-PPT: 10 mg/m <sup>3</sup>                    |
| 13463-67-7       | STEL/PPT-CT: 20 mg/m <sup>3</sup>                    |

## Appropriate engineering controls

**Engineering Measures** Provide a good standard of general ventilation. Natural ventilation is from doors, windows etc. Controlled ventilation means air is supplied or removed by a powered fan. Users are advised to consider national Occupational Exposure Limits or other equivalent values. In case of insufficient ventilation, wear suitable respiratory equipment.

# Individual protection measures, such as personal protective equipment

| Eye/Face Protection           | Wear safety glasses with side shields (or goggles). If splashes are likely to occur:. Wear suitable face shield. Ensure that eyewash stations and safety showers are close to the workstation location.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Skin Protection               | Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Hand Protection               | Chemical resistant protective gloves.<br>Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding >480 minutes of permeation time): eg. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), polyvinylchloride (0.7 mm) and other<br>Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers. Taking into account the varying conditions, the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing.<br>Due to different glove types, the manufacturer's directions for use should be observed.<br>Replace gloves immediately when torn or any change in appearance is noticed such as dimension, color, flexibility. |
| Respiratory Protection        | If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Respiratory protection must be provided in accordance with current local regulations. Selection of air-purifying or positive-pressure supplied-air will depend on the specific operation and the potential airborne concentration of the material.                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| General Hygiene Consideratior | <b>ns</b> Handle in accordance with good industrial hygiene and safety practice. Wash hands before eating, drinking or smoking. Wash contaminated clothing before reuse. Avoid contact with eyes, skin and clothing. Wear suitable gloves and eye/face protection. Regular cleaning of equipment, work area and clothing is recommended.                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

| Physical State<br>Odor                                                                                     | Liquid<br>Sweet Mild Acrylic                             | Appearance<br>Odor Threshold                                  | Colored Liquid<br>No information available |
|------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|---------------------------------------------------------------|--------------------------------------------|
| Property<br>pH<br>Melting Point / Freezing Point<br>Boiling Point / Boiling Range                          | <u>Values</u><br>> 149 °C / 300 °F<br>> 94 °C / > 201 °F | Remarks • Method<br>No data available<br>No data available    | -                                          |
| Flash Point<br>Evaporation rate<br>Flammability Limit in Air<br>Upper flammability limit                   | > 94 °C / > 201 °F                                       | Pensky Martens Clos<br>No data available<br>No data available | sed Cup (PMCC)                             |
| Lower flammability limit<br>Vapor Pressure<br>Vapor Density                                                | 4.40                                                     | No data available<br>No data available<br>No data available   |                                            |
| Specific Gravity<br>Water Solubility<br>Solubility in other solvents<br>Partition coefficient: n-octanol/v | 1.43<br>vater                                            | No data available<br>No data available<br>No data available   |                                            |
| Autoignition Temperature<br>Decomposition temperature<br>Kinematic viscosity                               |                                                          | No data available<br>No data available<br>No data available   |                                            |
| Dynamic viscosity<br>Explosive Properties<br>Oxidizing Properties                                          | No data available<br>No data available                   | No data available                                             |                                            |
| Other Information                                                                                          |                                                          |                                                               |                                            |
| Photochemically Reactive<br>Weight Per Gallon (Ibs/gal)                                                    | No<br>11.93                                              |                                                               |                                            |
| VOC by weight %<br>(less water)<br>0-1                                                                     | VOC by volume %<br>(less water)<br>0-1                   | VOC Ibs/gal<br>(less water)<br>0-1                            | VOC grams/liter<br>(less water)<br>0-1     |

# **10. STABILITY AND REACTIVITY**

### **Reactivity**

No information available.

### Chemical stability

Stable under normal conditions.

### Possibility of Hazardous Reactions

None under normal processing. Do not store for longer periods at temperatures above 93°C (200°F).

### Conditions to avoid

Temperatures above 93 °C / 200 °F. Protect from direct sunlight. Keep away from open flames, hot surfaces and sources of ignition.

### Incompatible materials

Strong acids. Strong bases. Strong oxidizing agents. Reducing agent.

# Hazardous Decomposition Products

Thermal decomposition can lead to release of irritating gases and vapors. Carbon dioxide (CO2). Carbon monoxide.

# 11. TOXICOLOGICAL INFORMATION

# Information on likely routes of exposure

InhalationSpecific test data for the substance or mixture is not available.Eye ContactSpecific test data for the substance or mixture is not available.

# Skin Contact

Specific test data for the substance or mixture is not available. Specific test data for the substance or mixture is not available.

| Component                      | Oral LD50             |
|--------------------------------|-----------------------|
| Acrylated Monomer              | = 5 g/kg (Rat)        |
| Titanium dioxide<br>13463-67-7 | > 10000 mg/kg (Rat)   |
| Glycol Ether Acrylate          | = 4660 µL/kg (Rat)    |
| Acrylated Monomer              | = 5190 mg/kg (Rat)    |
| Component                      | Dermal LD50           |
| Acrylated Monomer              | = 3600 mg/kg (Rabbit) |
| Acrylated Monomer              | = 5000 mg/kg (Rabbit) |

# Information on toxicological effects

| Symptoms                      | Specific test data for the substance or mixture is not available.                                                                                        |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Delayed and immediate effects | as well as chronic effects from short and long-term exposure                                                                                             |
| Skin corrosion/irritation     | Specific test data for the substance or mixture is not available. Causes skin irritation (pain, redness and swelling). (based on components).            |
| Eye damage/irritation         | Specific test data for the substance or mixture is not available. Causes serious eye irritation. (based on components).                                  |
| Irritation                    | Specific test data for the substance or mixture is not available.                                                                                        |
| Corrosivity                   | Specific test data for the substance or mixture is not available.                                                                                        |
| Sensitization                 | Specific test data for the substance or mixture is not available. May cause an allergic skin reaction. (based on components).                            |
| Mutagenic Effects             | Specific test data for the substance or mixture is not available.                                                                                        |
| Carcinogenic effects          | Specific test data for the substance or mixture is not available.                                                                                        |
| Reproductive Effects          | Specific test data for the substance or mixture is not available. May damage fertility. May damage the unborn child. (based on components).              |
| STOT - single exposure        | Specific test data for the substance or mixture is not available.                                                                                        |
| STOT - repeated exposure      | Specific test data for the substance or mixture is not available. Causes damage to organs through prolonged or repeated exposure. (based on components). |
| Chronic Toxicity              | Specific test data for the substance or mixture is not available                                                                                         |
| Target Organ Effects          | Liver, Respiratory system.                                                                                                                               |
| Aspiration hazard             | Specific test data for the substance or mixture is not available.                                                                                        |
| Carcinogenicity               | The table below indicates whether each agency has listed any ingredient as a carcinogen.                                                                 |
|                               | luno l                                                                                                                                                   |

| Component        | IARC     |
|------------------|----------|
| Titanium dioxide | Group 2B |
| 13463-67-7       |          |

| Component                      | OSHA |
|--------------------------------|------|
| Titanium dioxide<br>13463-67-7 | x    |
| Acrylated Monomer              | x    |
|                                |      |

# Numerical measures of toxicity - Product Information

**Unknown Acute Toxicity** 

0 % of the mixture consists of ingredient(s) of unknown toxicity

### The following values are calculated based on chapter 3.1 of the GHS document ATEmix (oral) 4,423.00 mg/kg

ATEmix (dermal)

10,674.00 mg/kg

# **12. ECOLOGICAL INFORMATION**

### Ecotoxicity

Specific test data for the substance or mixture is not available. Harmful to aquatic life with long lasting effects. (based on components).

0 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

| Component                | Fish                                                |
|--------------------------|-----------------------------------------------------|
| Talc                     | 96h LC50 Brachydanio rerio: > 100 g/L (semi-static) |
| 14807-96-6               |                                                     |
| Vinyl Functional Monomer | 96h LC50 Danio rerio: = 307 mg/L [static]           |
|                          |                                                     |
| Photoinitiator           | 96h LC50 Danio rerio: = 9 mg/L [static]             |
|                          |                                                     |

## Persistence and Degradability

No information available.

### **Bioaccumulation**

No information available

# Other adverse effects

No information available

| 13. DISPOSAL CONSIDERATIONS                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |
|--------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| Waste treatment methods                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |
| Waste Disposal Methods                           | Contain and dispose of waste according to local regulations.                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |  |
| Contaminated Packaging                           | Empty containers should be taken to an approved waste handling site for recycling or disposal.                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |  |
|                                                  | 14. TRANSPORT INFORMATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |
| Note:                                            | This information is not intended to convey all specific transportation requirements relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation information can be found in the specific regulations for your mode of transportation. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material. |  |  |
| DOT<br>Proper Shipping Name                      | Not regulated<br>Printing Ink                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |  |
| ICAO / IATA / IMDG / IMO<br>Proper Shipping Name | Not Regulated<br>Printing Ink                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |  |

# **15. REGULATORY INFORMATION**

# International Inventories

All components are listed on the TSCA Inventory. For further information, please contact:. Supplier (manufacturer/importer/downstream user/distributor).

# U.S. Federal Regulations

### SARA 313

 Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

 Component
 CAS-No
 Weight %
 SARA 313 - Threshold Values

 Glycol Ether Acrylate
 Trade Secret
 10 - 30
 1.0

The above glycol ether acrylate is considered a reactive chemical in ultraviolet curable inks. Once initiated by a high dose of ultraviolet light, this glycol ether acrylate rapidly polymerizes (i.e. hardens) and becomes part of the ink film. The polymerization process of UV curable inks is measured in milliseconds.

### Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product contains the following substances which are listed hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act:

| CAS-No       | Weight % |
|--------------|----------|
| Trade Secret | 10 - 30  |
|              |          |

# U.S. State Regulations

|                  | Massachusetts<br>Right To Know |
|------------------|--------------------------------|
| Talc             | X                              |
| 14807-96-6       |                                |
| Titanium dioxide | X                              |
| 13463-67-7       |                                |

| Component                      | Minnesota<br>Right To Know |
|--------------------------------|----------------------------|
| Acrylated Monomer              | ×                          |
| Talc<br>14807-96-6             | x                          |
| Titanium dioxide<br>13463-67-7 | ×                          |
| Acrylated Monomer              | X                          |

|                                | New Jersey<br>Right To Know |
|--------------------------------|-----------------------------|
| Talc<br>14807-96-6             | X                           |
| Titanium dioxide<br>13463-67-7 | X                           |
| Glycol Ether Acrylate          | Х                           |

|                                | Pennsylvania<br>Right To Know |
|--------------------------------|-------------------------------|
| Talc<br>14807-96-6             | X                             |
| Titanium dioxide<br>13463-67-7 | X                             |
| Glycol Ether Acrylate          | X                             |

### California Prop. 65

This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm

| Component        | California Prop. 65 |
|------------------|---------------------|
| Titanium dioxide | Carcinogen          |
|                  |                     |

- This product contains titanium dioxide in a non-respirable form. Inhalation of titanium dioxide is unlikely to occur from exposure to this product

# **Canada**

No information available

| 2       1       1       X         Key or legend to abbreviations and acronyms used in the safety data sheet         Legend - Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION         TWA       TWA (time-weighted average)         STEL       STEL (Short Term Exposure Limit)         Ceiling       Maximum limit value         ACGIH: (American Conference of Governmental Industrial Hygienists)         A1 - Known Human Carcinogen       A2 - Suspected Human Carcinogen         A2 - Suspected Human Carcinogen       Group 1 - Carcinogenic to Humans         Group 2A - Probably Carcinogenic to Humans       Group 2A - Probably Carcinogenic to Humans | 16. OTHER INFORMATION                                                                                                |                                      |                          |                 |                          |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|--------------------------------------|--------------------------|-----------------|--------------------------|
| Legend - Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION         TWA       TWA (time-weighted average)         STEL       STEL (Short Term Exposure Limit)         Ceiling       Maximum limit value         ACGIH: (American Conference of Governmental Industrial Hygienists)         A1 - Known Human Carcinogen         A2 - Suspected Human Carcinogen         A3 - Animal Carcinogen         IARC: (International Agency for Research on Cancer)         Group 1 - Carcinogenic to Humans         Group 2A - Probably Carcinogenic to Humans                                                                                                               | HMIS:                                                                                                                |                                      | Flammability<br>1        | Reactivity<br>1 | Personal Protection<br>X |
| TWA       TWA (time-weighted average)         STEL       STEL (Short Term Exposure Limit)         Ceiling       Maximum limit value         ACGIH: (American Conference of Governmental Industrial Hygienists)         A1 - Known Human Carcinogen         A2 - Suspected Human Carcinogen         A3 - Animal Carcinogen         IARC: (International Agency for Research on Cancer)         Group 1 - Carcinogenic to Humans         Group 2A - Probably Carcinogenic to Humans                                                                                                                                                                                 | Key or legend to abbre                                                                                               | viations and acrony                  | ms used in the safety da | ata sheet       |                          |
| STEL       STEL (Short Term Exposure Limit)         Ceiling       Maximum limit value         ACGIH: (American Conference of Governmental Industrial Hygienists)         A1 - Known Human Carcinogen         A2 - Suspected Human Carcinogen         A3 - Animal Carcinogen         IARC: (International Agency for Research on Cancer)         Group 1 - Carcinogenic to Humans         Group 2A - Probably Carcinogenic to Humans                                                                                                                                                                                                                               |                                                                                                                      |                                      |                          |                 |                          |
| Ceiling Maximum limit value<br>ACGIH: (American Conference of Governmental Industrial Hygienists)<br>A1 - Known Human Carcinogen<br>A2 - Suspected Human Carcinogen<br>A3 - Animal Carcinogen<br>IARC: (International Agency for Research on Cancer)<br>Group 1 - Carcinogenic to Humans<br>Group 2A - Probably Carcinogenic to Humans                                                                                                                                                                                                                                                                                                                            |                                                                                                                      |                                      |                          |                 |                          |
| A1 - Known Human Carcinogen<br>A2 - Suspected Human Carcinogen<br>A3 - Animal Carcinogen<br>IARC: (International Agency for Research on Cancer)<br>Group 1 - Carcinogenic to Humans<br>Group 2A - Probably Carcinogenic to Humans                                                                                                                                                                                                                                                                                                                                                                                                                                 | -                                                                                                                    |                                      |                          |                 |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | A1 - Known Human Carcinoger<br>A2 - Suspected Human Carcino<br>A3 - Animal Carcinogen<br>IARC: (International Agency | n<br>ogen<br>for Research on Cancer) |                          |                 |                          |
| Crown 9B Beasibly Carsinggania to Llymona                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Group 2A - Probably Carcinogenic to Humans                                                                           |                                      |                          |                 |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Group 2B - Possibly Carcinoge                                                                                        |                                      |                          |                 |                          |
| NTP: (National Toxicity Program)<br>Known - Known Carcinogen                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                      | 'am)                                 |                          |                 |                          |
| Reasonably Anticipated to be a Human Carcinogen                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                      | Human Carcinogen                     |                          |                 |                          |
| OSHA: (Occupational Safety & Health Administration)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                      |                                      |                          |                 |                          |

X - Present

**Revision Date** 

Dec-06-2019

### Pursuant to NOM-018-STPS-2015

This information within is considered correct but is not exhaustive and will be used for guidance only, which is based on the current knowledge of the substance or mixture and is applicable to the appropriate safety precautions for the product.

### **Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet