# **HumiSeal**<sup>®</sup>

0

Consumer



SAFETY DATA SHEET

## 1. Identification

| Product identifier                                     | HumiSeal UV40 GEL                            |                         |  |
|--|--|-------------------------|--|
| Other means of identification                          |  |                         |  |
| Product code   | HumiSeal UV40 GEL                            |                         |  |
| Recommended use  | Protective Coating for Printed Circuit Board |                         |  |
| Recommended restrictions                               | No other uses are advised.                   |                         |  |
| Manufacturer/Importer/Supplier/Distributor information |  |                         |  |
| Manufacturer   |  |                         |  |
| Company name   | CHASE CORPORATION Zeta Drive Plant           |                         |  |
| Address  | 201 Zeta Drive                               |                         |  |
|  | Pittsburgh, Pennsylvania 15238               |                         |  |
|  | United States                                |                         |  |
| Telephone  | 1-866-932-0800                               |                         |  |
| E-mail   | techsupport@humiseal.com                     |                         |  |
| Emergency phone number                                 | 1-800-424-9300                               | Chemtrec, US            |  |
|  | (+1)703-527-3887                             | Chemtrec, outside of US |  |

## 2. Hazard(s) identification

| Physical hazards      | Flammable liquids                                      | Category 4                              |
|-----------------------|--|---|
| Health hazards        | Skin corrosion/irritation                              | Category 2                              |
|                       | Serious eye damage/eye irritation                      | Category 2                              |
|                       | Sensitization, respiratory                             | Category 1                              |
|                       | Sensitization, skin                                    | Category 1A                             |
|                       | Specific target organ toxicity, single exposure        | Category 3 respiratory tract irritation |
| Environmental hazards | Hazardous to the aquatic environment, acute hazard     | Category 3                              |
|                       | Hazardous to the aquatic environment, long-term hazard | Category 2                              |
| OSHA defined hazards  | Not classified.  |   |

## **OSHA** defined hazards

Label elements



| Signal word      | Danger   |
|------------------|--|
| Hazard statement |  |
| H227             | Combustible liquid.  |
| H315             | Causes skin irritation.  |
| H317             | May cause an allergic skin reaction.                                       |
| H319             | Causes serious eye irritation.   |
| H334             | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| H335             | May cause respiratory irritation.  |

| H402   | Harmful to aquatic life.   |  |
|--|--|--|
| H411   | Toxic to aquatic life with long lasting effects.   |  |
|  |  |  |
| Precautionary statement                      |  |  |
| Prevention                                   |  |  |
| P210   | Keep away from flames and hot surfaces No smoking.   |  |
| P261   | Avoid breathing mist/vapors.   |  |
| P273   | Avoid release to the environment.  |  |
| P280   | Wear protective gloves/protective clothing/eye protection/face protection.   |  |
| P285   | In case of inadequate ventilation wear respiratory protection.   |  |
| Response                                     |  |  |
| P304 + P340                                  | If inhaled: Remove person to fresh air and keep comfortable for breathing.   |  |
| P305 + P351 +                                |  |  |
| P338   | If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.   |  |
| P342 + P311                                  | If experiencing respiratory symptoms: Call a poison center/doctor.   |  |
| P370 + P378                                  | In case of fire: Use appropriate media to extinguish.  |  |
| P391   | Collect spillage.  |  |
| Storage                                      |  |  |
| P403 + P235                                  | Store in a well-ventilated place. Keep cool.   |  |
| Disposal                                     | Not available.   |  |
| Hazard(s) not otherwise<br>classified (HNOC) | None known.  |  |
| Supplemental information                     | 66.68% of the mixture consists of component(s) of unknown acute oral toxicity. 71.47% of the mixture consists of component(s) of unknown acute dermal toxicity. 66.68% of the mixture consists of component(s) of unknown acute inhalation toxicity. 68.18% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 31.53% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment. |  |

# 3. Composition/information on ingredients

| Chemical name                                     | Common name and synonyms | CAS number  | %         |
|---|--------------------------|-------------|-----------|
| ISOBORNYL ACRYLATE                                |                          | 5888-33-5   | 30 - < 40 |
| n-butyl acetate                                   |                          | 123-86-4    | 3 - < 5   |
| SILICA  |                          | 112945-52-5 | 1 - < 3   |
| Phenylbis(2,4,6-trimethylbenzoyl)ph osphine oxide |                          | 162881-26-7 | < 1       |
| Tosyl isocyanate                                  |                          | 4083-64-1   | < 1       |

# 4. First-aid measures

| Inhalation   | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If experiencing respiratory symptoms: Call a poison center or doctor/physician. |
|--|--|
| Skin contact   | Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions. Wash contaminated clothing before reuse.  |
| Eye contact  | Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.  |
| Ingestion  | Rinse mouth. Get medical attention if symptoms occur.  |
| Most important<br>symptoms/effects, acute and<br>delayed                     | Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Difficulty in breathing. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.   |
| Indication of immediate<br>medical attention and special<br>treatment needed | Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.   |
| General information  | If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.   |

## 5. Fire-fighting measures

| Suitable extinguishing media                                  | Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).  |  |
|---|--|--|
| Unsuitable extinguishing media                                | Water. Do not use water jet as an extinguisher, as this will spread the fire.  |  |
| Specific hazards arising from the chemical                    | The product is combustible, and heating may generate vapors which may form explosive vapor/air mixtures. During fire, gases hazardous to health may be formed. |  |
| Special protective equipment and precautions for firefighters | Self-contained breathing apparatus and full protective clothing must be worn in case of fire.  |  |
| Fire fighting<br>equipment/instructions                       | In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.   |  |
| Specific methods  | Use standard firefighting procedures and consider the hazards of other involved materials.   |  |
| General fire hazards  | Combustible liquid.  |  |

## 6. Accidental release measures

| Personal precautions,<br>protective equipment and<br>emergency procedures | Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist/vapors. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS. |
|---|---|
| Methods and materials for<br>containment and cleaning up                  | Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. This product is miscible in water. Prevent product from entering drains.   |
|   | Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.  |
|   | Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.   |
|   | Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.   |
| Environmental precautions   | Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.  |
| 7. Handling and storage   |   |
| Precautions for safe handling   | Keep away from open flames, hot surfaces and sources of ignition. When using do not smoke.<br>Avoid breathing mist/vapors. Avoid contact with eyes, skin, and clothing. Avoid prolonged<br>exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid<br>release to the environment. Observe good industrial hygiene practices.  |
| Conditions for safe storage, including any incompatibilities              | Store locked up. Keep away from heat, sparks and open flame. Store in a cool, dry place out of direct sunlight. Store in tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).  |

## 8. Exposure controls/personal protection

### **Occupational exposure limits**

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

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

| Components                        | Туре   | Value     |  |
|-----------------------------------|--------|-----------|--|
| n-butyl acetate (CAS<br>123-86-4) | PEL    | 710 mg/m3 |  |
|                                   |        | 150 ppm   |  |
| US. OSHA Table Z-3 (29 CFR 1910   | .1000) |           |  |
| Components                        | Туре   | Value     |  |
| SILICA (CAS 112945-52-5)          | TWA    | 0.8 mg/m3 |  |
|                                   |        | 20 mppcf  |  |
|                                   |        |           |  |

| US. ACGIH Threshold Limit<br>Components | Туре  | Value                             |  |
|---|---|-----------------------------------|--|
| n-butyl acetate (CAS<br>123-86-4)       | STEL  | 150 ppm                           |  |
|   | TWA   | 50 ppm                            |  |
| US. NIOSH: Pocket Guide t               | o Chemical Hazards  |                                   |  |
| Components                              | Туре  | Value                             |  |
| n-butyl acetate (CAS<br>123-86-4)       | STEL  | 950 mg/m3                         |  |
|   |   | 200 ppm                           |  |
|   | TWA   | 710 mg/m3                         |  |
|   |   | 150 ppm                           |  |
| SILICA (CAS 112945-52-5)                | TWA   | 6 mg/m3                           |  |
| ological limit values                   | No biological exposure limits noted for the ingredient(s).  |                                   |  |
| propriate engineering<br>ntrols         | Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. General ventilation normally adequate. Provide eyewash station and safety shower. |                                   |  |
| dividual protection measures            | , such as personal protective equip   | ment                              |  |
| Eye/face protection                     | Chemical respirator with organic va   | por cartridge and full facepiece. |  |
| Skin protection                         |   |                                   |  |
| Hand protection                         | Wear appropriate chemical resistant gloves.   |                                   |  |
| Other                                   | Wear appropriate chemical resistant clothing.   |                                   |  |
| Respiratory protection                  | Chemical respirator with organic vapor cartridge and full facepiece.  |                                   |  |
| Thermal hazards                         | Not applicable.   |                                   |  |
| eneral hygiene<br>nsiderations          | When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should r be allowed out of the workplace.   |                                   |  |

# 9. Physical and chemical properties

| Appearance                              |                              |
|---|------------------------------|
| Physical state                          | Liquid.                      |
| Form                                    | Not available.               |
| Color                                   | Light yellow.                |
| Odor                                    | Mild Organic.                |
| Odor threshold                          | Not available.               |
| рН                                      | Does not apply.              |
| Melting point/freezing point            | Not available.               |
| Initial boiling point and boiling range | Not available.               |
| Flash point                             | 168.8 °F (76.0 °C) estimated |
| Evaporation rate                        | Not available.               |
| Flammability (solid, gas)               | Not applicable.              |
| Upper/lower flammability or expl        | osive limits                 |
| Explosive limit - lower (%)             | Not available.               |
| Explosive limit - upper (%)             | Not available.               |
| Vapor pressure                          | 0.03 hPa estimated           |
| Vapor density                           | Not available.               |
| Relative density                        | Not available.               |

| Solubility(ies)                            |                            |
|--|----------------------------|
| Solubility (water)                         | Negligible                 |
| Partition coefficient<br>(n-octanol/water) | Not available.             |
| Auto-ignition temperature                  | Not available.             |
| Decomposition temperature                  | Not available.             |
| Viscosity                                  | Not available.             |
| Other information                          |                            |
| Density                                    | 1.06 g/cm3                 |
| Explosive properties                       | Not explosive.             |
| Flammability class                         | Combustible IIIA estimated |
| Miscible (water)                           | Negligible                 |
| Oxidizing properties                       | Not oxidizing.             |
| Percent volatile                           | 2.87 % estimated           |
| Specific gravity                           | 1.06                       |
| voc  | 33.43 % estimated          |
|  |                            |

# 10. Stability and reactivity

| Reactivity<br>Chemical stability      | The product is stable and non-reactive under normal conditions of use, storage and transport.<br>Material is stable under normal conditions.   |
|---------------------------------------|--|
| •                                     |  |
| Possibility of hazardous<br>reactions | No dangerous reaction known under conditions of normal use.  |
| Conditions to avoid                   | Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials. |
| Incompatible materials                | Strong oxidizing agents.   |
| Hazardous decomposition<br>products   | No hazardous decomposition products are known.   |

# 11. Toxicological information

## Information on likely routes of exposure

| Inhalation   | May cause irritation to the respiratory system. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Prolonged inhalation may be harmful.  |
|--|--|
| Skin contact   | Causes skin irritation. May cause an allergic skin reaction.   |
| Eye contact  | Causes serious eye irritation.   |
| Ingestion  | Expected to be a low ingestion hazard.   |
| Symptoms related to the physical, chemical and toxicological characteristics | Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Difficulty in breathing. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash. |

## Information on toxicological effects

| Acute toxicity                 | Not known.              |                   |
|--------------------------------|-------------------------|-------------------|
| Components                     | Species                 | Test Results      |
| n-butyl acetate (CAS 123-86-4) |                         |                   |
| Acute                          |                         |                   |
| Inhalation                     |                         |                   |
| LC50                           | Wistar rat              | 160 mg/l, 4 Hours |
| Oral                           |                         |                   |
| LD50                           | Rat                     | 14000 mg/kg       |
| SILICA (CAS 112945-52-5)       |                         |                   |
| Acute                          |                         |                   |
| Oral                           |                         |                   |
| LD50                           | Rat                     | > 22500 mg/kg     |
| Skin corrosion/irritation      | Causes skin irritation. |                   |

| Serious eye damage/eye<br>irritation                      | Causes serious eye irritation.   |   |   |  |
|---|--|---|---|--|
| Respiratory or skin sensitization                         | n  |   |   |  |
| Respiratory sensitization                                 | May cause alle   | ergy or asthma symptoms or breathing dif  | ficulties if inhaled.                   |  |
| Skin sensitization  | May cause an   | May cause an allergic skin reaction.  |   |  |
| Germ cell mutagenicity                                    | No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.   |   |   |  |
| Carcinogenicity   | Not classifiable   | e as to carcinogenicity to humans.  |   |  |
| IARC Monographs. Overall                                  | Evaluation of Ca   | arcinogenicity  |   |  |
| SILICA (CAS 112945-52-                                    |  |   | arcinogenicity to humans.               |  |
| OSHA Specifically Regulate                                | ed Substances (2   | 29 CFR 1910.1001-1053)  |   |  |
| Not listed.<br>US. National Toxicology Pro<br>Not listed. | ogram (NTP) Rej  | port on Carcinogens   |   |  |
| Reproductive toxicity                                     | This product is  | not expected to cause reproductive or de  |   |  |
| Specific target organ toxicity -<br>single exposure       |  | This product is not expected to cause reproductive or developmental effects.<br>May cause respiratory irritation. |   |  |
| Specific target organ toxicity -<br>repeated exposure     | Not classified.  | Not classified.   |   |  |
|   | Not on conjusti  |   |   |  |
| Aspiration hazard   | Not an aspirati  |   |   |  |
| Chronic effects   | Prolonged inhalation may be harmful.   |   |   |  |
| 12. Ecological information                                | า  |   |   |  |
| Ecotoxicity   | Toxic to aquati  | c life with long lasting effects.   |   |  |
| Product   |  | Species   | Test Results                            |  |
| HumiSeal UV40 GEL   |  |   |   |  |
| Aquatic   |  |   |   |  |
| Crustacea   | EC50   | Daphnia   | 5625, 48 hours estimated                |  |
| Fish  | LC50   | Fish  | 2723.7148, 96 hours estimated           |  |
| Components  |  | Species   | Test Results                            |  |
| n-butyl acetate (CAS 123-86-                              | 4)   |   |   |  |
| Aquatic   |  |   |   |  |
| Acute   | 1.050  |   |   |  |
| Fish  | LC50   | Fathead minnow (Pimephales promelas)  |   |  |
| Persistence and degradability                             | No data is avai  | ilable on the degradability of any ingredie   | nts in the mixture.                     |  |
| Bioaccumulative potential                                 |  |   |   |  |
| Partition coefficient n-octan<br>n-butyl acetate          | nol / water (log K   | <b>(ow)</b><br>1.78   |   |  |
| Mobility in soil  | No data availal  |   |   |  |
| Other adverse effects                                     |  | ontains volatile organic compounds which  | have a photochemical ozone creation     |  |
|   | potential.   |   | ····· • • • • • • • • • • • • • • • • • |  |
| 13. Disposal consideration                                |  |   |   |  |
| Disposal instructions                                     | Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations. |   |   |  |
| Local disposal regulations                                | -  | ordance with all applicable regulations.  |   |  |
| Hazardous waste code                                      | The waste code should be assigned in discussion between the user, the producer and the waste disposal company.   |   |   |  |
| Waste from residues / unused<br>products                  | Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).   |   |   |  |

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

## 14. Transport information

#### DOT

Not regulated as dangerous goods.

#### ΙΑΤΑ

Not regulated as dangerous goods.

#### IMDG

Not regulated as dangerous goods.

Transport in bulk according to Not established. Annex II of MARPOL 73/78 and

the IBC Code

### 15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Listed.

#### **Toxic Substances Control Act (TSCA)**

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

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

n-butyl acetate (CAS 123-86-4)

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) Not listed.

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

#### SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous Yes

#### chemical

 Classified hazard categories
 Flammable (gases, aerosols, liquids, or solids)

 Skin corrosion or irritation
 Serious eye damage or eye irritation

 Respiratory or skin sensitization
 Specific target organ toxicity (single or repeated exposure)

#### SARA 313 (TRI reporting)

Not regulated.

#### Other federal regulations

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

Not regulated.

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

Not regulated.

Safe Drinking Water Act Not regulated.

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(SDWA)
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## FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

n-butyl acetate (CAS 123-86-4)

#### US state regulations

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

Low priority

Tosyl isocyanate (CAS 4083-64-1)

#### **California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

### International Inventories

| Country(s) or region        | Inventory name  | On inventory (yes/no)* |
|-----------------------------|---|------------------------|
| Australia                   | Australian Inventory of Industrial Chemicals (AICIS)                      | Yes                    |
| Canada                      | Domestic Substances List (DSL)  | Yes                    |
| Canada                      | Non-Domestic Substances List (NDSL)                                       | No                     |
| China                       | Inventory of Existing Chemical Substances in China (IECSC)                | Yes                    |
| Europe                      | European Inventory of Existing Commercial Chemical<br>Substances (EINECS) | Yes                    |
| Europe                      | European List of Notified Chemical Substances (ELINCS)                    | No                     |
| Japan                       | Inventory of Existing and New Chemical Substances (ENCS)                  | Yes                    |
| Korea                       | Existing Chemicals List (ECL)   | Yes                    |
| New Zealand                 | New Zealand Inventory   | Yes                    |
| Philippines                 | Philippine Inventory of Chemicals and Chemical Substances (PICCS)         | Yes                    |
| Taiwan                      | Taiwan Chemical Substance Inventory (TCSI)                                | Yes                    |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory                             | Yes                    |
|                             |   |                        |

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

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

| Issue date            | 07-31-2015  |
|-----------------------|---|
| Revision date         | 08-16-2021  |
| Version #             | 04  |
| HMIS® ratings         | Health: 2*<br>Flammability: 2<br>Physical hazard: 0   |
| NFPA ratings          | Health: 2<br>Flammability: 2<br>Instability: 0  |
| List of abbreviations | AICIS: Australian Inventory of Industrial Chemicals.  |
| Disclaimer            | The information offered in this data sheet is designed only as guidance for the safe use, storage<br>and handling of the product. This information is correct to the best of our knowledge and belief at<br>the date of publication, however, no guarantee is made to its accuracy. This information relates<br>only to the specific material designated and may not be valid for such material used in combination<br>with any other materials or in any other process. This material is intended for industrial use only.<br>No warranty, expressed or implied is made. |
| Revision information  | This document has undergone significant changes and should be reviewed in its entirety.   |