

## 1. Identification

|                                      |                                                                                                                                                                                                                                 |
|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product identifier</b>            | <b>Novalk NU5404 Reducer</b>                                                                                                                                                                                                    |
| <b>Other means of identification</b> |                                                                                                                                                                                                                                 |
| <b>Product code</b>                  | NU5404                                                                                                                                                                                                                          |
| <b>Manufacturer information</b>      | Novalk USA<br>361 W. Longview Ave.<br>Mansfield, OH 44903<br>(419) 983-0007<br><br>Website: <a href="http://www.novalkusa.com">www.novalkusa.com</a><br>SDS Request: <a href="mailto:Info@novalkusa.com">Info@novalkusa.com</a> |
| <b>Recommended use</b>               | Solvent                                                                                                                                                                                                                         |
| <b>Restrictions on Use</b>           | None known.                                                                                                                                                                                                                     |

## 2. Hazard(s) identification

|                              |                                                 |                                         |
|------------------------------|-------------------------------------------------|-----------------------------------------|
| <b>Physical hazards</b>      | Flammable liquids                               | Category 2                              |
| <b>Health hazards</b>        | Acute toxicity, oral                            | Category 4                              |
|                              | Acute toxicity, inhalation                      | Category 4                              |
|                              | Skin corrosion/irritation                       | Category 2                              |
|                              | Serious eye damage/eye irritation               | Category 2A                             |
|                              | Carcinogenicity                                 | Category 2                              |
|                              | Specific target organ toxicity, single exposure | Category 3 respiratory tract irritation |
|                              | Specific target organ toxicity, single exposure | Category 3 narcotic effects             |
| <b>Environmental hazards</b> | Not classified                                  |                                         |
| <b>OSHA defined hazards</b>  | Not classified                                  |                                         |

### Label elements



**Signal word** Danger

### Hazard statement

|      |                                    |
|------|------------------------------------|
| H225 | Highly flammable liquid and vapor. |
| H302 | Harmful if swallowed.              |
| H315 | Causes skin irritation.            |
| H319 | Causes serious eye irritation.     |
| H332 | Harmful if inhaled.                |
| H335 | May cause respiratory irritation.  |
| H336 | May cause drowsiness or dizziness. |
| H351 | Suspected of causing cancer.       |

### Precautionary statement

#### Prevention

|      |                                                                           |
|------|---------------------------------------------------------------------------|
| P262 | Do not get in eyes, on skin, or on clothing.                              |
| P261 | Avoid breathing vapors or mist.                                           |
| P202 | Do not handle until all safety precautions have been read and understood. |
| P210 | Keep away from heat/sparks/open flames/hot surfaces. - No smoking.        |
| P233 | Keep container tightly closed.                                            |

|      |                                                                            |
|------|----------------------------------------------------------------------------|
| P240 | Ground/bond container and receiving equipment.                             |
| P241 | Use explosion-proof electrical/ventilating/lighting equipment.             |
| P242 | Use only non-sparking tools.                                               |
| P243 | Take precautionary measures against static discharge.                      |
| P264 | Wash thoroughly after handling.                                            |
| P270 | Do not eat, drink or smoke when using this product.                        |
| P271 | Use only outdoors or in a well-ventilated area.                            |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |

#### Response

|                    |                                                                                                                                  |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------|
| P301 + P330 + P331 | If swallowed: Rinse mouth. Do NOT induce vomiting.                                                                               |
| P310               | Immediately call a poison center/doctor.                                                                                         |
| P303 + P361 + P353 | If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.                              |
| P332 + P313        | If skin irritation occurs: Get medical advice/attention.                                                                         |
| P363               | Wash contaminated clothing before reuse.                                                                                         |
| P304 + P340        | If inhaled: Remove person to fresh air and keep comfortable for breathing.                                                       |
| P308 + P313        | If exposed or concerned: Get medical advice/attention.                                                                           |
| 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.                                                                        |
| P370 + P378        | In case of fire: Use appropriate media to extinguish.                                                                            |

#### Storage

|             |                                                                  |
|-------------|------------------------------------------------------------------|
| P235        | Keep cool.                                                       |
| P403 + P233 | Store in a well-ventilated place. Keep container tightly closed. |

#### Disposal

|      |                                                                                                     |
|------|-----------------------------------------------------------------------------------------------------|
| P501 | Dispose of contents/container in accordance with local/regional/national/international regulations. |
|------|-----------------------------------------------------------------------------------------------------|

### 3. Composition/information on ingredients

#### Mixtures

| Chemical name            | Common name and synonyms | CAS number | %     |
|--------------------------|--------------------------|------------|-------|
| Acetic Acid, Butyl Ester |                          | 123-86-4   | 50-70 |
| 2-Methyl-4-Pentanone     |                          | 108-10-1   | 20-40 |
| Acetic Acid, Ethyl Ester |                          | 141-78-6   | 20-40 |

### 4. First-aid measures

|                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Inhalation</b>                                                             | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Call a poison center or doctor/physician if you feel unwell.                                                                                                                                                                                                      |
| <b>Skin contact</b>                                                           | Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.                                                                                                                                                                                                                    |
| <b>Eye contact</b>                                                            | 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.                                                                                                                                                                                                |
| <b>Ingestion</b>                                                              | Rinse mouth. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Get medical advice/attention if you feel unwell.                                                                                                                                                                                                                                                |
| <b>Most important symptoms/effects, acute and delayed</b>                     | May cause drowsiness or dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Skin irritation. May cause redness and pain.                                                                                                                                                |
| <b>Indication of immediate medical attention and special treatment needed</b> | Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim warm. Keep victim under observation. Symptoms may be delayed.                                                                      |
| <b>General information</b>                                                    | Take off all contaminated clothing immediately. If exposed or concerned: Get medical advice/attention. 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. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse. |

## 5. Fire-fighting measures

|                                                                      |                                                                                                                                                                                    |
|----------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Suitable extinguishing media</b>                                  | Water fog. Alcohol resistant foam. Dry chemical powder. Carbon dioxide (CO <sub>2</sub> ).                                                                                         |
| <b>Unsuitable extinguishing media</b>                                | Do not use water jet as an extinguisher, as this will spread the fire.                                                                                                             |
| <b>Specific hazards arising from the chemical</b>                    | Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed. |
| <b>Special protective equipment and precautions for firefighters</b> | Self-contained breathing apparatus and full protective clothing must be worn in case of fire.                                                                                      |
| <b>Fire fighting equipment/instructions</b>                          | In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.                                                               |
| <b>Specific methods</b>                                              | Use standard firefighting procedures and consider the hazards of other involved materials.                                                                                         |
| <b>General fire hazards</b>                                          | Highly flammable liquid and vapor.                                                                                                                                                 |

## 6. Accidental release measures

|                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|----------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Personal precautions, protective equipment and emergency procedures</b> | 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. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Methods and materials for containment and cleaning up</b>               | <p>Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools. This product is miscible in water.</p> <p>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.</p> <p>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.</p> <p>Never return spills to original containers for re-use. Put material in suitable, covered, labeled containers. For waste disposal, see section 13 of the SDS.</p> |
| <b>Environmental precautions</b>                                           | Avoid discharge into drains, water courses or onto the ground.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

## 7. Handling and storage

|                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|---------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Precautions for safe handling</b>                                | Do not handle until all safety precautions have been read and understood. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not taste or swallow. Avoid breathing mist/vapors. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Should be handled in closed systems, if possible. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices. |
| <b>Conditions for safe storage, including any incompatibilities</b> | Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. 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 Permissible Exposure Limits (PEL) for Air Contaminants (29 CFR 1910.1000)

| Components                             | Type | Value                 |
|----------------------------------------|------|-----------------------|
| 2-Methyl-4-Pentanone<br>(CAS 108-10-1) | PEL  | 410 mg/m <sup>3</sup> |
|                                        |      | 100 ppm               |

**US. OSHA Table Z-1 Permissible Exposure Limits (PEL) for Air Contaminants (29 CFR 1910.1000)**

| Components                                 | Type | Value      |
|--------------------------------------------|------|------------|
| Acetic Acid, Butyl Ester<br>(CAS 123-86-4) | PEL  | 710 mg/m3  |
|                                            |      | 150 ppm    |
| Acetic Acid, Ethyl Ester<br>(CAS 141-78-6) | PEL  | 1400 mg/m3 |
|                                            |      | 400 ppm    |

**US. ACGIH Threshold Limit Values (TLV)**

| Components                                 | Type | Value   |
|--------------------------------------------|------|---------|
| 2-Methyl-4-Pentanone<br>(CAS 108-10-1)     | STEL | 75 ppm  |
|                                            | TWA  | 20 ppm  |
| Acetic Acid, Butyl Ester<br>(CAS 123-86-4) | STEL | 150 ppm |
|                                            | TWA  | 50 ppm  |
| Acetic Acid, Ethyl Ester<br>(CAS 141-78-6) | TWA  | 400 ppm |

**NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended**

| Components                                 | Type | Value    |
|--------------------------------------------|------|----------|
| Acetic Acid, Ethyl Ester<br>(CAS 141-78-6) | IDLH | 2 %      |
|                                            |      | 2000 ppm |

**US. NIOSH: Pocket Guide to Chemical Hazards Recommended Exposure Limits (REL)**

| Components                                 | Type | Value      |
|--------------------------------------------|------|------------|
| 2-Methyl-4-Pentanone<br>(CAS 108-10-1)     | STEL | 300 mg/m3  |
|                                            |      | 75 ppm     |
|                                            |      | 205 mg/m3  |
| Acetic Acid, Butyl Ester<br>(CAS 123-86-4) | STEL | 50 ppm     |
|                                            |      | 950 mg/m3  |
|                                            |      | 200 ppm    |
| Acetic Acid, Ethyl Ester<br>(CAS 141-78-6) | TWA  | 710 mg/m3  |
|                                            |      | 150 ppm    |
|                                            |      | 1400 mg/m3 |
|                                            |      | 400 ppm    |

**Biological limit values****ACGIH Biological Exposure Indices (BEI)**

| Components                             | Value  | Determinant               | Specimen | Sampling Time |
|----------------------------------------|--------|---------------------------|----------|---------------|
| 2-Methyl-4-Pentanone<br>(CAS 108-10-1) | 1 mg/l | Methyl isobutyl<br>ketone | Urine    | *             |

\* - For sampling details, please see the source document.

**Appropriate engineering controls**

Explosion-proof general and local exhaust ventilation. 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. Provide eyewash station and safety shower.

**Individual protection measures, such as personal protective equipment****Eye/face protection**

Wear safety glasses with side shields (or chemical goggles), and full facepiece is recommended if splashing is expected. An eyewash station and safety shower should be made available.

**Skin protection****Hand protection**

Wear appropriate chemical resistant gloves.

|                                       |                                                                                                                                                                                                                                                                                                                          |
|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Other</b>                          | Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.                                                                                                                                                                                                                                 |
| <b>Respiratory protection</b>         | If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Chemical respirator with organic vapor cartridge and full facepiece. |
| <b>Thermal hazards</b>                | Wear appropriate thermal protective clothing, when necessary.                                                                                                                                                                                                                                                            |
| <b>General hygiene considerations</b> | When using do not smoke. Keep away from food and drink. 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.                                            |

## 9. Physical and chemical properties

|                                                     |                                             |
|-----------------------------------------------------|---------------------------------------------|
| <b>Appearance</b>                                   | Clear                                       |
| <b>Physical state</b>                               | Liquid                                      |
| <b>Color</b>                                        | Colorless                                   |
| <b>Odor</b>                                         | Typical Solvent                             |
| <b>Odor threshold</b>                               | Not Available                               |
| <b>pH</b>                                           | Not Available                               |
| <b>Melting point/freezing point</b>                 | Not Determined                              |
| <b>Initial boiling point and boiling range</b>      | 170.6 °F (77 °C) Estimated                  |
| <b>Flammability</b>                                 | Not Available                               |
| <b>Flash point</b>                                  | 24.8 °F (-4.0 °C) Lowest Flashing Component |
| <b>Upper/lower flammability or explosive limits</b> |                                             |
| <b>Flammability limit - lower (%)</b>               | 1.2 % Estimated                             |
| <b>Flammability limit - upper (%)</b>               | 11.4 % Estimated                            |
| <b>Vapor pressure</b>                               | 47.13 hPa @ 20C (1 hPa = 0.75006 mmHg)      |
| <b>Vapor density</b>                                | >1 (Air = 1)                                |
| <b>Density</b>                                      | 0.869 g/cm <sup>3</sup>                     |
| <b>Kinematic viscosity</b>                          | Not Determined                              |
| <b>Solubility(ies)</b>                              |                                             |
| <b>Solubility (water)</b>                           | Miscible                                    |
| <b>Partition coefficient (n-octanol/water)</b>      | Not Available                               |
| <b>Auto-ignition temperature</b>                    | Not Determined                              |
| <b>Decomposition temperature</b>                    | Not Determined                              |
| <b>Particle characteristics</b>                     | Not Available                               |
| <b>Other information</b>                            |                                             |
| <b>Pounds per gallon</b>                            | 7.241 lb/gal                                |
| <b>Specific gravity</b>                             | 0.869                                       |

## 10. Stability and reactivity

|                                           |                                                                                                                                                                                                       |
|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Reactivity</b>                         | The product is stable and non-reactive under normal conditions of use, storage and transport.                                                                                                         |
| <b>Chemical stability</b>                 | Material is stable under normal conditions.                                                                                                                                                           |
| <b>Possibility of hazardous reactions</b> | No dangerous reaction known under conditions of normal use.                                                                                                                                           |
| <b>Conditions to avoid</b>                | Avoid heat, sparks, open flames and other ignition sources. Suitable precautions should be utilized if using this product at temperatures above the flash point. Contact with incompatible materials. |
| <b>Incompatible materials</b>             | Strong oxidizing agents.                                                                                                                                                                              |

**Hazardous decomposition products** No hazardous decomposition products are known.

## 11. Toxicological information

### Information on likely routes of exposure

**Inhalation** Harmful if inhaled. May cause drowsiness or dizziness. Headache. Nausea, vomiting.

**Skin contact** Causes skin irritation.

**Eye contact** Causes serious eye irritation.

**Ingestion** Harmful if swallowed.

**Symptoms related to the physical, chemical and toxicological characteristics** May cause drowsiness or dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Skin irritation. May cause redness and pain.

### Information on toxicological effects

**Acute toxicity** Harmful if inhaled. Harmful if swallowed.

| Components | Species | Test Results |
|------------|---------|--------------|
|------------|---------|--------------|

|                                     |  |  |
|-------------------------------------|--|--|
| 2-Methyl-4-Pentanone (CAS 108-10-1) |  |  |
|-------------------------------------|--|--|

**Acute**

**Dermal**

|      |        |               |
|------|--------|---------------|
| LD50 | Rabbit | > 16000 mg/kg |
|------|--------|---------------|

|                                         |  |  |
|-----------------------------------------|--|--|
| Acetic Acid, Butyl Ester (CAS 123-86-4) |  |  |
|-----------------------------------------|--|--|

**Acute**

**Inhalation**

|      |            |                   |
|------|------------|-------------------|
| LC50 | Wistar rat | 160 mg/l, 4 Hours |
|------|------------|-------------------|

**Skin corrosion/irritation** Causes skin irritation.

**Serious eye damage/eye irritation** Causes serious eye irritation.

### Respiratory or skin sensitization

**Respiratory sensitization** Not a respiratory sensitizer.

**Skin sensitization** This product is not expected to cause skin sensitization.

**Germ cell mutagenicity** No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

**Carcinogenicity** Suspected of causing cancer.

### IARC Monographs. Overall Evaluation of Carcinogenicity

|                                     |                                     |
|-------------------------------------|-------------------------------------|
| 2-Methyl-4-Pentanone (CAS 108-10-1) | 2B Possibly carcinogenic to humans. |
|-------------------------------------|-------------------------------------|

### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

### US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

**Reproductive toxicity** This product is not expected to cause reproductive or developmental effects.

**Specific target organ toxicity - single exposure** May cause respiratory irritation. May cause drowsiness or dizziness.

**Specific target organ toxicity - repeated exposure** Not classified.

**Aspiration hazard** Not an aspiration hazard.

**Chronic effects** Prolonged inhalation may be harmful.

## 12. Ecological information

**Ecotoxicity** The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

| Components                              | Species | Test Results                                                            |
|-----------------------------------------|---------|-------------------------------------------------------------------------|
| 2-Methyl-4-Pentanone (CAS 108-10-1)     |         |                                                                         |
| <b>Aquatic</b>                          |         |                                                                         |
| <i>Acute</i>                            |         |                                                                         |
| Fish                                    | LC50    | Fathead minnow (Pimephales promelas) >= 492 - <= 593 mg/l, 96 hours     |
| Acetic Acid, Butyl Ester (CAS 123-86-4) |         |                                                                         |
| <b>Aquatic</b>                          |         |                                                                         |
| <i>Acute</i>                            |         |                                                                         |
| Fish                                    | LC50    | Fathead minnow (Pimephales promelas) >= 17 - <= 19 mg/l, 96 hours       |
| Acetic Acid, Ethyl Ester (CAS 141-78-6) |         |                                                                         |
| <b>Aquatic</b>                          |         |                                                                         |
| <i>Acute</i>                            |         |                                                                         |
| Fish                                    | LC50    | Indian catfish (Heteropneustes fossilis) 200.32 - 225.42 mg/l, 96 hours |

**Persistence and degradability** No data is available on the degradability of any ingredients in the mixture.

**Bioaccumulative potential**

|                                                          |                         |
|----------------------------------------------------------|-------------------------|
| <b>Partition coefficient n-octanol / water (log Kow)</b> |                         |
| 2-Methyl-4-Pentanone                                     | 1.31                    |
| Acetic Acid, Butyl Ester                                 | 2.3, (measured)         |
| Acetic Acid, Ethyl Ester                                 | 0.68 Measured Estimated |
|                                                          | 0.73                    |

|                              |                                                                                                      |
|------------------------------|------------------------------------------------------------------------------------------------------|
| <b>Mobility in soil</b>      | This product is miscible in water and may not disperse in soil.                                      |
| <b>Other adverse effects</b> | The product contains volatile organic compounds which have a photochemical ozone creation potential. |

**13. Disposal considerations**

|                                              |                                                                                                                                                                                                                                                                                                                     |
|----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Disposal instructions</b>                 | Dispose of this material and its container to hazardous or special waste collection point. Incinerate the material under controlled conditions in an approved incinerator. Do not incinerate sealed containers. Dispose of contents/container in accordance with local/regional/national/international regulations. |
| <b>Local disposal regulations</b>            | Dispose in accordance with all applicable regulations.                                                                                                                                                                                                                                                              |
| <b>Waste from residues / unused products</b> | 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.                                                                                                                                 |
| <b>Contaminated packaging</b>                | 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**

|                             |                        |
|-----------------------------|------------------------|
| <b>DOT BULK / NON-BULK</b>  |                        |
| <b>UN number</b>            | 1263                   |
| <b>Proper shipping name</b> | Paint Related Material |
| <b>Hazard class</b>         | 3                      |
| <b>Packing group</b>        | II                     |
| <b>ERG code</b>             | 128                    |

**15. Regulatory information**

|                                                                       |                                                                                                                |
|-----------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| <b>US federal regulations</b>                                         | This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. |
| <b>Toxic Substances Control Act (TSCA) Restrictions of Use</b>        | None known                                                                                                     |
| <b>TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)</b>  | Not regulated.                                                                                                 |
| <b>CERCLA Hazardous Substance List (40 CFR 302.4)</b>                 | Not listed.                                                                                                    |
| <b>SARA 304 Emergency release notification</b>                        | Not regulated.                                                                                                 |
| <b>OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)</b> | Not listed.                                                                                                    |

**Superfund Amendments and Reauthorization Act of 1986 (SARA)****SARA 302 Extremely hazardous substance**

Not listed.

**SARA 311/312**

Yes

**Hazardous chemical****Classified hazard categories**

Flammable (gases, aerosols, liquids, or solids)  
Acute toxicity (any route of exposure)  
Skin corrosion or irritation  
Serious eye damage or eye irritation  
Carcinogenicity  
Specific target organ toxicity (single or repeated exposure)

**SARA 313 (TRI reporting)**

| Chemical name        | CAS number | % by wt. |
|----------------------|------------|----------|
| 2-Methyl-4-Pentanone | 108-10-1   | 20-40    |

**Other federal regulations****Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

2-Methyl-4-Pentanone (CAS 108-10-1)

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

Not regulated.

**Safe Drinking Water Act (SDWA)**

Not regulated.

**Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number**

2-Methyl-4-Pentanone (CAS 108-10-1) 6715

**Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))**

2-Methyl-4-Pentanone (CAS 108-10-1) 35 %WV

**DEA Exempt Chemical Mixtures Code Number**

2-Methyl-4-Pentanone (CAS 108-10-1) 6715

**FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace**

2-Methyl-4-Pentanone (CAS 108-10-1) Low priority

Acetic Acid, Butyl Ester (CAS 123-86-4) Low priority

Acetic Acid, Ethyl Ester (CAS 141-78-6) Low priority

**US state regulations****California Proposition 65**

**WARNING:** This product can expose you to chemicals including 2-Methyl-4-Pentanone, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**California Proposition 65 - CRT: Listed date/Carcinogenic substance**

2-Methyl-4-Pentanone (CAS 108-10-1) Listed: November 4, 2011

Acetaldehyde (CAS 75-07-0) Listed: April 1, 1988

Ethyl Benzene (CAS 100-41-4) Listed: June 11, 2004

**California Proposition 65 - CRT: Listed date/Developmental toxin**

2-Methyl-4-Pentanone (CAS 108-10-1) Listed: March 28, 2014

Toluene (CAS 108-88-3) Listed: January 1, 1991

**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 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                    |



| Country(s) or region        | Inventory name                                                    | On inventory (yes/no)* |
|-----------------------------|-------------------------------------------------------------------|------------------------|
| 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

|            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
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| Issue date | 05-01-2026                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Version #  | 01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
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