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| Storage | Store in a well-ventilated place. Keep container tightly closed. Keep cool. |
| Disposal | Dispose of contents/container in accordance with local/regional/national/international regulations. |
| Hazard(s) not otherwise classified (HNOC) | No additional hazards are known to be associated with the expected conditions of use at the time of publication. This document does not address hazards that may arise from uses not reasonably anticipated by the manufacturer. |
| Supplemental information | Although the product as a whole is in solid format, the product does not meet the OSHA HCS definition of a flammable solid as per Appendix B to 1910.1200 - Physical Hazard Criteria, section B.7.1 and B. 7.2. |

3. Composition/information on ingredients

Mixtures

| Chemical name | CAS number | % |
|------------------------|------------|------|
| Methyl propyl ketone | 107-87-9 | ≥ 90 |
| Isobutyl methyl ketone | 108-10-1 | ≤ 10 |

Composition comments All concentrations are in percent by weight.

4. First-aid measures

Inhalation Not relevant, due to the form of the product. However: If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center or doctor/physician if you feel unwell.

Skin contact Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical attention if irritation develops and persists.

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 Not relevant, due to the form of the product. However: If ingestion occurs: Rinse mouth. Get medical advice/attention if you feel unwell.

Most important symptoms/effects, acute and delayed Direct contact with eyes causes serious eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Mild skin irritation. May cause respiratory irritation. In high concentrations, vapors are narcotic and may cause headache, fatigue, dizziness and nausea.

Indication of immediate medical attention and special treatment needed 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.

General information Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. If you feel unwell, seek medical advice (show the label where possible).

5. Fire-fighting measures

Suitable extinguishing media Water fog. Alcohol resistant foam. Dry chemical powder. Carbon dioxide (CO₂).

Unsuitable extinguishing media Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical May burn with invisible flame. 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. Carbon oxides. Aldehydes. Ketones. Organic compounds.

Special protective equipment and precautions for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions In case of fire and/or explosion do not breathe fumes. Cool containers exposed to flames with water. 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 Solid containing highly flammable liquid and vapour.

6. Accidental release measures

Personal precautions, protective equipment and 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. Avoid contact with eyes, skin, and clothing. 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.

Methods and materials for 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. Take precautionary measures against static discharge. The liquid solvent solution is miscible in water. Spills are very unlikely, because the wiper fabric has absorbed the liquid solvent solution. In the event of a spill, contain with an inert absorbent. Collect the wipes with a non sparking tool and absorb or wipe any residual liquids. Used wipes must be disposed in a closed container.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage**Precautions for safe handling**

WARNING! Used wipes may catch fire if improperly discarded or stored near ignition sources. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Take precautionary measures against static discharges. Avoid breathing mist/vapors. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Do not taste or swallow. When using, do not eat, drink or smoke. Wash hands thoroughly after handling. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Keep away from heat, sparks and open flame. Keep away from combustible material. Keep container closed when not in use. Store in a cool, dry place out of direct sunlight. Store in tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection**Occupational exposure limits****US. OSHA Table Z-1 Permissible Exposure Limits (PEL) for Air Contaminants (29 CFR 1910.1000)**

| Components | Type | Value |
|---------------------------------------|------|-----------|
| Isobutyl methyl ketone (CAS 108-10-1) | PEL | 410 mg/m3 |
| | | 100 ppm |
| Methyl propyl ketone (CAS 107-87-9) | PEL | 700 mg/m3 |
| | | 200 ppm |

US. ACGIH Threshold Limit Values (TLV)

| Components | Type | Value |
|---------------------------------------|------|---------|
| Isobutyl methyl ketone (CAS 108-10-1) | STEL | 75 ppm |
| | TWA | 20 ppm |
| Methyl propyl ketone (CAS 107-87-9) | STEL | 150 ppm |

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

| Components | Type | Value |
|---------------------------------------|------|----------|
| Isobutyl methyl ketone (CAS 108-10-1) | IDLH | 500 ppm |
| Methyl propyl ketone (CAS 107-87-9) | IDLH | 1500 ppm |

US. NIOSH: Pocket Guide to Chemical Hazards

| Components | Type | Value |
|---------------------------------------|------|-----------|
| Isobutyl methyl ketone (CAS 108-10-1) | STEL | 300 mg/m3 |
| | | 75 ppm |
| | TWA | 205 mg/m3 |
| | | 50 ppm |
| Methyl propyl ketone (CAS 107-87-9) | TWA | 530 mg/m3 |

US. NIOSH: Pocket Guide to Chemical Hazards**Components****Type****Value**

150 ppm

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

| Components | Value | Determinant | Specimen | Sampling Time |
|--|--------|---------------------------|----------|---------------|
| Isobutyl methyl ketone (CAS 108-10-1) | 1 mg/l | Methyl isobutyl ketone | Urine | * |

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

Appropriate engineering controls

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 Not necessary under normal conditions. If splashing is possible, wear safety glasses with side shields (or goggles).

Skin protection**Hand protection**

Wear appropriate chemical resistant gloves. Take note of the information given by the manufacturer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).

Recommended materials: Polyethylene. Neoprene. Chlorinated polyethylene (or Chlorosulfonated polyethylene). Natural rubber. Polyvinyl chloride (PVC). Nitrile rubber/Nitrile latex - NBR. Ethyl vinyl alcohol laminate ("EVAL").

Unsuitable materials: Polyvinyl alcohol (PVA).

Skin protection**Other**

Wear suitable protective clothing. Use of an impervious apron is recommended.

Respiratory protection

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. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA 29 CFR 1910.134. Check with respiratory protective equipment suppliers.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Observe any medical surveillance requirements. 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**Physical state**

Liquid.

Form

Wipes saturated with liquid.

Color

Colorless.

Odor

Alcoholic

Odor threshold

Property has not been measured.

Melting point/freezing point

-108.4 °F (-78 °C) (methyl propyl ketone)

Boiling point or initial boiling point and boiling range

213.8 °F (101 °C) (methyl propyl ketone)

Flammability

Solid containing highly flammable liquid.

Upper/lower flammability or explosive limits

Explosive limit - lower (%) 1.56 % (methyl propyl ketone)

Explosive limit - upper (%) 8.7 % (methyl propyl ketone)

Flash point

46.4 °F (8 °C) Tag Closed Cup (methyl propyl ketone)

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|--|---|
| Auto-ignition temperature | 840.2 °F (449 °C) (methyl propyl ketone) |
| Decomposition temperature | Property has not been measured. |
| pH | Property has not been measured. |
| Kinematic viscosity | Property has not been measured. |
| Solubility | |
| Solubility (water) | Moderately soluble (1.0 - <10%) |
| Partition coefficient (n-octanol/water) | Not applicable for mixtures. |
| Vapor pressure | 37 mbar (methyl propyl ketone) (68 °F (20 °C)) |
| Density and/or relative density | |
| Relative density | 0.81 (68 °F (20 °C)) |
| Vapor density | 2.9 (Air=1) (methyl propyl ketone) |
| Particle characteristics | Not applicable. |
| Other information | The product is supplied as pre-saturated wipes. The physico-chemical properties listed below refer to the impregnating liquid and not to the solid substrate. |
| Evaporation rate | 2.3 (butyl acetate = 1) (methyl propyl ketone) |
| Explosive properties | Not explosive. |
| Oxidizing properties | Not oxidizing. |
| Percent volatile | 100 % |
| Viscosity | Property has not been measured. |

10. Stability and reactivity

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|---|---|
| Reactivity | The product is stable and non-reactive under normal conditions of use, storage and transport. |
| Chemical stability | Material is stable under normal conditions. |
| Possibility of hazardous 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. Exposure to air. Static accumulation. Protect against direct sunlight. |
| Incompatible materials | Amines. Strong acids. Strong bases. Strong oxidizing agents. Strong reducing agents. |
| Hazardous decomposition products | Thermal decomposition or combustion may produce: Carbon oxides. Aldehydes. Ketones. Organic compounds. |

11. Toxicological information

Information on likely routes of exposure

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|---------------------|--|
| Inhalation | May cause respiratory irritation. Prolonged inhalation may be harmful. |
| Skin contact | Causes mild skin irritation. |
| Eye contact | Causes serious eye irritation. |
| Ingestion | Harmful if swallowed. |

Symptoms related to the physical, chemical and toxicological characteristics Direct contact with eyes may cause temporary irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Mild skin irritation. May cause respiratory irritation. In high concentrations, vapors are narcotic and may cause headache, fatigue, dizziness and nausea.

Information on toxicological effects

Acute toxicity Harmful if swallowed.

| Product | Species | Test Results |
|--|----------------|---------------------|
| Presaturated wipes containing Methyl Propyl Ketone (CAS Mixture) | | |
| <u>Acute</u> | | |
| Inhalation | | |
| <i>Vapor</i> | | |
| ATEmix | | 110 mg/l |

| Product | Species | Test Results |
|----------------|---------|---------------|
| Oral ATEmix | | 1684 mg/kg bw |

| Components | Species | Test Results |
|---------------------------------------|---------|------------------|
| Isobutyl methyl ketone (CAS 108-10-1) | | |
| Acute | | |
| Dermal | | |
| LD50 | Rabbit | > 16000 mg/kg |
| Inhalation | | |
| <i>Vapor</i> | | |
| LC50 | Rat | 11 mg/l, 4 Hours |
| Oral | | |
| LD50 | Rat | 3200 mg/kg |

| | | |
|-------------------------------------|--------|-------------------|
| Methyl propyl ketone (CAS 107-87-9) | | |
| Acute | | |
| Dermal | | |
| LD50 | Rabbit | 6500 mg/kg |
| Oral | | |
| LD50 | Rat | 1600 - 3200 mg/kg |
| Chronic | | |
| Other | | |
| NOAEL | Rat | 454 mg/kg dw |

Skin corrosion/irritation Causes mild 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 Not classifiable as to carcinogenicity to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

Isobutyl methyl ketone (CAS 108-10-1) 2B Possibly carcinogenic to humans.

NTP Report on Carcinogens

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

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.

Specific target organ toxicity - repeated exposure Not classified.

Aspiration hazard Not an aspiration hazard.

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 |
|---------------------------------------|---------|--|
| Isobutyl methyl ketone (CAS 108-10-1) | | |
| Aquatic | | |
| <i>Acute</i> | | |
| Crustacea | EC50 | Water flea (Daphnia magna) 3682 mg/l, 24 hours |
| Fish | LC50 | Pimephales promelas 505 mg/l, 96 Hours |
| <i>Chronic</i> | | |
| Crustacea | EC50 | Daphnia magna 78 mg/l, 21 days |
| Fish | NOEC | Pimephales promelas 57 mg/l, 31 days |
| Methyl propyl ketone (CAS 107-87-9) | | |
| Aquatic | | |
| <i>Acute</i> | | |
| Algae | EC50 | Pseudokirchnerella subcapitata 308.8 mg/l, 72 Hours |
| Crustacea | EC50 | Daphnia magna > 1000 mg/l, 48 Hours |
| Fish | LC50 | Fathead minnow (Pimephales promelas) 1240 mg/l, 96 Hours |

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

Bioaccumulative potential Bioconcentration potential is low.

Partition coefficient n-octanol / water (log Kow)

| | |
|---------------------------------------|------|
| Isobutyl methyl ketone (CAS 108-10-1) | 1.31 |
| Methyl propyl ketone (CAS 107-87-9) | 0.91 |

Mobility in soil This product is moderately water soluble and may disperse in soil.

Other adverse effects The product contains volatile organic compounds which have a photochemical ozone creation potential. This product contains one or more substances identified as hazardous air pollutants (HAPs) per the US Federal Clean Air Act (see section 15).

13. Disposal considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose in accordance with all applicable regulations. Used wipes must be disposed in a closed container. Dispose of used wipes by dry waste to landfill.

Local disposal regulations Dispose in accordance with all applicable regulations.

Hazardous waste code D001: Waste Flammable material with a flash point <140 °F
The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Waste from residues / unused 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).

Contaminated packaging 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

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|-------------------------------------|---|
| UN number | UN1993 |
| UN proper shipping name | Flammable liquids, n.o.s. (Methyl propyl ketone, Isobutyl methyl ketone RQ = 50000 LBS), Limited Quantity |
| Transport hazard class(es) | |
| Class | 3 |
| Subsidiary hazard | - |
| Label(s) | 3 |
| Packing group | II |
| Environmental hazards | |
| Marine pollutant | No. |
| Special precautions for user | Read safety instructions, SDS and emergency procedures before handling. |

Special provisions IB2, T7, TP1, TP8, TP28
Packaging exceptions 150
Packaging non bulk 202
Packaging bulk 242

IATA

UN number -
UN proper shipping name IATA: Not permitted for transport.
Transport hazard class(es)
Class -
Subsidiary hazard -
Packing group -
Environmental hazards No.
Special precautions for user IATA classification is not relevant as the material is not transported by air.

IMDG

UN number UN1993
UN proper shipping name FLAMMABLE LIQUID, N.O.S. (Methyl propyl ketone, Isobutyl methyl ketone), Limited Quantity
Transport hazard class(es)
Class 3
Subsidiary hazard -
Packing group II
Environmental hazards
Marine pollutant No.
EmS F-E, S-E
Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to IMO instruments Not established.

15. Regulatory information

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

Toxic Substances Control Act (TSCA) All components of the mixture on the TSCA 8(b) inventory are designated "active".

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

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Isobutyl methyl ketone (CAS 108-10-1)

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 chemical Yes

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

SARA 313 (TRI reporting)

| Chemical name | CAS number | % by wt. |
|------------------------|------------|----------|
| Isobutyl methyl ketone | 108-10-1 | ≤ 10 |

Other federal regulations

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

Isobutyl methyl ketone (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

Isobutyl methyl ketone (CAS 108-10-1) 6715

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

Isobutyl methyl ketone (CAS 108-10-1) 35 %WV

DEA Exempt Chemical Mixtures Code Number

Isobutyl methyl ketone (CAS 108-10-1) 6715

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

Isobutyl methyl ketone (CAS 108-10-1) Low priority

Methyl propyl ketone (CAS 107-87-9) Low priority

US state regulations

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

Isobutyl methyl ketone (CAS 108-10-1)

US. Massachusetts RTK - Substance List

Isobutyl methyl ketone (CAS 108-10-1)

Methyl propyl ketone (CAS 107-87-9)

US. New Jersey Worker and Community Right-to-Know Act

Isobutyl methyl ketone (CAS 108-10-1)

Methyl propyl ketone (CAS 107-87-9)

US. Pennsylvania Worker and Community Right-to-Know Law

Isobutyl methyl ketone (CAS 108-10-1)

Methyl propyl ketone (CAS 107-87-9)

US. Rhode Island RTK

Isobutyl methyl ketone (CAS 108-10-1)

Methyl propyl ketone (CAS 107-87-9)

California Proposition 65



WARNING: This product can expose you to Isobutyl methyl ketone, 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.

California Proposition 65 - CRT: Listed date/Carcinogenic substance

Isobutyl methyl ketone (CAS 108-10-1) Listed: November 4, 2011

California Proposition 65 - CRT: Listed date/Developmental toxin

Isobutyl methyl ketone (CAS 108-10-1) Listed: March 28, 2014

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

| | |
|----------------------|---|
| Issue date | 29-May-2026 |
| Revision date | - |
| Version # | 01 |
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