



SAFETY DATA SHEET

STRAWBERRY FURANONE 20% IN ETHYL ALCOHOL

Issue date: 11-28-2023

Revision # 0

Print date: 04-04-2024

1. IDENTIFICATION

Product Description: STRAWBERRY FURANONE 20% IN ETHYL ALCOHOL
CAS # MIXTURE
Other means of identification
Qaroma Item # 1111523
Recommended use Concentrated aromatic and flavor ingredients which may be used in flavor and fragrance compounds according to legal and IFRA or FEMA GRAS/FDA guidelines.
Recommended restrictions For Manufacturing Use Only

Company

Qaroma Incorporated
8055 TX-60 S
Bay City, TX, 77414
call: 979-244-0100

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name Qaroma Incorporated
Address 8055 TX-60 S
Bay City, TX, 77414
United States
Telephone For information call: 979-244-0100
E-mail ehsbc@chemicalsinc.
com
Emergency phone number 979-244-0100

2. HAZARD(S) IDENTIFICATION

HAZARDS

H225 HIGHLY FLAMMABLE LIQUID AND VAPOR

H303 Harmful if swallowed
H313 Harmful in contact with skin
H315 Skin irritation
H317 Cause allergic skin reaction
H318 Cause eye damage
H333 Harmful if inhaled
H360 Damage fertility
H411 Toxic aquatic life
P201 Obtain special instruction before use
P202 Do not handle without all safety precautions
P264 Wash hands thoroughly after handling
P272 Neat work clothes
P273 Avoid release to the environment
P281 Strict use of personal protective equipment

PRECAUTIONS



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3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures

Chemical name	Common name and synonyms	CAS number	%
ETHYL ALCOHOL	ethanol ethyl hydroxide 1-hydroxyethane methyl carbinol	64-17-5	75 - < 85
4- hydroxy- 2,5-dimethylfuran-3-one	2,5-DIMETHYL-4-HYDROXY-3-FURANONE DIMETHYLHYDROXY FURANONE 3(2H)-Furanone, 4-hydroxy-2,5-dimethyl-4-Hydroxy-2,5-dimethylfuran-2(3H)-one	3658-77-3	15 - < 25

4. FIRST-AID MEASURES

Inhalation	Taken away from the site of accident and given medical assistance
Skin contact	Wash well with water and soap. Contact the physician if symptoms persist.
Eye contact	Flush the eyes with plenty of fresh water. Get medical assistance immediately
Ingestion	Immediately rinse the mouth with water and get medical assistance.
Symptoms	Headache. Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness
Indication of immediate medical attention and special treatment needed	Not available.
General information	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.
symptoms/effects	Eye damage, Headache, corrosive skin damage.



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Indication of immediate medical attention and special treatment needed Not available.

General information Provide all the necessary documents regarding this chemical to the physician.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media Water spray, fog, CO₂, dry chemical, or alcohol resistant foam. Do

Unsuitable extinguishing media not use a solid water stream as it may scatter and spread fire. Fire

Specific hazards arising from the chemical may produce irritating, corrosive and/or toxic gases.

Special protective equipment and precautions for firefighters Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Structural firefighters' protective clothing will only provide limited protection. Wear self-contained breathing apparatus with a full facepiece operated in the positive pressure demand mode when fighting fires.

Firefighting equipment/instructions In case of fire and/or explosion do not breathe fumes. Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from the fire area if you can do so without risk. Water runoff can cause environmental damage. Ventilate closed spaces before entering them. Keep run-off water out of sewers and water sources. Dike for water control.

Specific methods Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards Static charges generated by emptying package in or near flammable vapor may cause flash fire.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures Eliminate all sources of ignition. Avoid contact with skin or inhalation of spillage, dust, or vapor. Keep unnecessary personnel away. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them.

Methods and materials for containment and cleaning up Collect and dispose of spillage as indicated in section 13 of the SDS.

Stop the flow of material if this is without risk. Dike the spilled material, where this is possible. Absorb with inert absorbent such as dry clay, sand or diatomaceous earth, commercial sorbents, or recover using pumps. Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area).

Never return spills in original containers for re-use. This material and its container must be disposed of as hazardous waste. 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. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers.

Small Spills: Wipe up with absorbent material (e.g., cloth, fleece). Clean surface thoroughly to remove residual contamination.



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Environmental precautions Retain and dispose of contaminated wash water. Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate the water.

7. HANDLING AND STORAGE

Precautions for safe handling Do not handle or store near an open flame, heat, or other sources of ignition. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Avoid breathing vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Wash thoroughly after handling.

Conditions for safe storage, including any incompatibilities Keep container closed. Handle containers with care. Open slowly to control possible pressure release. Store in a cool, well-ventilated area.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Biological limit values No biological exposure limits noted for the ingredient(s)

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles). Wear safety glasses with side shields (or goggles). Face shield is recommended.

Skin protection

Hand protection Chemical resistant gloves.

Other Use of an impervious apron is recommended.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Pale yellow Liquid.
Physical state	Liquid.
Purity	18 to 24.
Color	Yellow
Odor threshold	Not available.
pH	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	172.4 °F (78 °C)
Flash point	63.0 °F (17.2 °C) Closed Cup
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Soluble
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Explosive properties	Not explosive.
Molecular formula	Not applicable
Oxidizing properties	Not oxidizing.
Specific gravity	0.88 at 25 °C



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10. STABILITY AND REACTIVITY

Reactivity Chemical stability	Product is stable and non-reactive under normal conditions of use, storage, and transport. Material is stable under normal conditions
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use
Conditions to 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 products	No hazardous decomposition products if stored and handled as indicated.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation	May cause irritation to the respiratory system. Prolonged inhalation may be harmful.
Skin contact	Causes severe skin burns. May cause an allergic skin reaction.
Eye contact	Causes serious eye damage.
Ingestion	Causes digestive tract burns.

Symptoms related to the physical, chemical, and toxicological characteristics	Headache. Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Coughing.
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Information on toxicological effects

Acute toxicity	Not known.
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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.
Persistence and degradability	No data is available on the degradability of this product.
Bioaccumulative potential	

Partition coefficient n-octanol / water (log Kow)

ETHYL ALCOHOL	-0.31
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Mobility in soil	No data available.
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Other adverse effects	No other adverse environmental effects (e.g., ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.
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13. DISPOSAL

Disposal instructions	Do not discharge into drains, water courses or onto the ground. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways, or ditches with chemical or used containers. Dispose of contents/container in accordance with local/regional/national/international regulations.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Waste from residues	Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after the container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. TRANSPORTATION

UN Number

ADR/RID: 2924 IATA/IMDG: 2924 DOT BULK / DOT NON-BULK: 2924

UN Proper shipping name

ADR/RID: FLAMMABLE LIQUID, CORROSIVE, N.O.S. (ETHYL ALCOHOL, 4- hydroxy- 2,5-dimethylfuran-3-one)

IATA/IMDG: FLAMMABLE LIQUID, CORROSIVE, N.O.S. (ETHYL ALCOHOL, 4- hydroxy- 2,5-dimethylfuran-3-one)

DOT BULK / DOT NON-BULK : FLAMMABLE LIQUID, CORROSIVE, N.O.S. (ETHYL ALCOHOL, 4- hydroxy- 2,5-dimethylfuran-3-one)

Transport hazard class(es)

ADR/RID: 3 IATA/IMDG: 3 DOT BULK / DOT NON-BULK: 3

Packing group

ADR/RID: II IATA/IMDG: II DOT BULK / DOT NON-BULK: II

Environmental hazards

ADR/RID: No IATA/IMDG: No DOT BULK / DOT NON-BULK: No



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1. REGULATORY INFORMATION

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

Toxic Substances Control Act (TSCA)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical Yes

Classified hazard categories Flammable (gases, aerosols, liquids, or solids)
Skin corrosion or irritation
Serious eye damage or eye irritation
Respiratory or skin sensitization

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 (SDWA) Not regulated.