

Create Date: 2017-04-11 00:00:00/ Revision Date: 2017-11-15 01:00:00/ Print Date: 2019-10-29

SECTION 1: COMPANY AND PRODUCT INFORMATION

1.1 Product identifiers

Product name : Acetone
Product code : 40170004
CAS number : 67-64-1
Synonyms : DIMETHYLFORMALDEHYDE; DIMETHYLKETAL

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : For research and laboratory use only.

1.3 Details of the supplier of the safety data sheet

Address : Genelix International Inc, dba bioWORLD
4150 Tuller Rd. Suite 228
Dublin, OH 43017

Email : info@buffersandreagents.com

Phone : 614-792-8680, Toll free: 1-888-bio-PLUS

Fax : 614-792-8685

1.4 Emergency telephone number

Emergency phone : 1-888-bio-PLUS

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of substance or mixture

Flammable liquids (Category 2), H225
Eye irritation (Category 2A), H319
Reproductive toxicity (Category 2), H361
Specific target organ toxicity - single exposure (Category 3), Respiratory tract irritation, H335
Specific target organ toxicity - single exposure (Category 3), Central nervous system, H336
Specific target organ toxicity - repeated exposure (Category 2), Blood, H373

2.2 GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Flammable liquids (Category 2), H225
Eye irritation (Category 2A), H319
Reproductive toxicity (Category 2), H361
Specific target organ toxicity - single exposure (Category 3), Respiratory tract irritation, H335
Specific target organ toxicity - single exposure (Category 3), Central nervous system, H336
Specific target organ toxicity - repeated exposure (Category 2), Blood, H373

2.3 Label elements and precautionary statements

Pictogram :   

Signal word	: Danger
Hazard statement(s)	: H225 - Highly flammable liquid and vapor. H319 - Causes serious eye irritation. H335 - May cause respiratory irritation. H336 - May cause drowsiness or dizziness. H361 - Suspected of damaging fertility or the unborn child. H373 - May cause damage to organs (blood) through prolonged or repeated exposure. H402 - Harmful to aquatic life. H412 - Harmful to aquatic life with long lasting effects.
Precautionary statement(s)	: P201 - Obtain special instructions before use. 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. P261 - Avoid breathing dust/fume/gas/mist/vapors/spray. P264 - Wash skin thoroughly after handling. P271 - Use only outdoors or in a well-ventilated area. P280 - Wear protective gloves/eye protection/face protection. P301+310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. P303+361+353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P304+340+312 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell. P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308+311 - If exposed or concerned: Get medical advice/attention. P337+313 - If eye irritation persists: Get medical advice/attention. P370+378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish. P403+233 - Store in a well-ventilated place. Keep container tightly closed. P403+235 - Store in a well-ventilated place. Keep cool. P405 - Store locked up. P501 - Dispose of contents/container to an approved waste disposal plant.

2.4 Hazards not otherwise classified (HNOC) or not covered by GHS

Static accumulating flammable liquid.

2.5 NFPA Rating

Health hazard : 2
Fire hazard : 3
Reactivity hazard : 0

2.6 HMIS Rating

Health hazard : 2

Chronic health hazard : *
Reactivity hazard : 0
Flammability : 3
Physical hazard : 0

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Substance	CAS#	EC#	Concentration
Acetone M.F: C ₃ H ₆ O M.W: 58.08 g/mol	67-64-1	200-662-2	90-100%

3.2 Hazardous components & classification

Flam. Liq. 2; Eye Irrit. 2A; Rep. Tox. 2; STOT SE 3; STOT RE 2; H225, H319, H335, H336, H361, H402, H412

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General advice

Consult a physician if symptoms are severe or persistent. Provide this data sheet to medical personnel. If product is spilled or leaked, evacuate area.

In case of inhalation

If inhaled, move person to fresh air and monitor breathing. If not breathing, give artificial ventilation. Consult a physician if symptoms are severe or persistent.

In case of skin contact

Immediately wash with excess soap and water. If spilled on clothing, remove all affected clothing. Consult a physician if symptoms are severe or persistent.

In case of eye contact

Flush eyes with water or eye wash solution as a precaution for 15 minutes. Consult a physician if symptoms are severe or persistent.

In case of ingestion

Only induce vomiting if recommended by medical personnel. If subject is unconscious, do not give anything by mouth. If conscious, rinse mouth with water. Consult a physician if symptoms are severe or persistent.

4.2 Most important symptoms and effects, both acute and delayed

All known important symptoms are described in Section 2 and/or Section 11. No other important symptoms to report.

4.3 Indication of any immediate medical attention and special treatment needed

No special treatment indicated. Provide treatment in accordance with exhibited systems.

SECTION 5: FIREFIGHTING MEASURES

5.1 Suitable extinguishing media

Water spray, alcohol-resistant foam, dry chemical, and carbon dioxide extinguishers are suitable.

5.2 Unsuitable extinguishing media

Water Jets

5.3 Special hazards arising from the substance

Carbon oxides

5.4 Advice for firefighters

Wear protective gear, such as self-contained breathing apparatus, if necessary

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Provide suitable ventilation. Use any necessary personal protective equipment. Avoid contact with skin and eyes, and avoid creation and inhalation of vapor or dust. Keep all unnecessary personnel away.

For personal protection see section 8

6.2 Environmental precautions

Prevent product from entering public sewers and waterways.

6.3 Methods and material for containment and cleaning up

Use inert absorbent material to absorb any spilled or leaked product. Keep in suitable, closed containers for disposal.

For proper disposal see section 13

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Provide suitable ventilation. Wear any necessary personal protective equipment.

For precautions see section 2

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions : Store upright, closed container in arid, ventilated environment.

Incompatible materials : Strong oxidizing agents and acids are incompatible with this product.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Acetone; CAS No.: 67-64-1

PEL: 2400 mg/m³, 1000 ppm. Basis: USA. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000).

STEL: 750 ppm. Basis: USA. ACGIH Threshold Limit Values.

TWA: 500 ppm. Basis: USA. ACGIH Threshold Limit Values.

TWA: 590 mg/m³, 250 ppm. Basis: USA. NIOSH Recommended Exposure Limits.

8.2 Engineering controls

Follow good industrial hygiene and safety practices when handling product.

8.3 Personal protective equipment

Eye/face protection	: Use only government-approved safety glasses with side-shields.
Skin protection	: Use gloves when handling product. Inspect gloves before use to ensure suitability for use. Remove without exposing skin to the gloves outer surface. Discard used gloves according to all pertinent laws and/or current good practices (cGXP). Wash hands with soap and water.
Body protection	: Wear appropriate clothing. Ensure clothing is in good condition, with no holes or tears. When selecting clothing, consider the concentration and amount of substance to be handled.
Respiratory protection	: Use only approved respirators and components which comply with CDC and NIOSH (US) or CEN (EU) regulations. Required only when vapors or aerosols are created.
Control of environmental exposure	: Prevent product from entering the environment, especially through public sewers or waterways.
General hygiene considerations	: Comply with general industrial hygiene practice guidelines.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	: Clear, Colorless
b)	Physical states	: Liquid
c)	Odor	: Not available
d)	Odor threshold	: Not available
e)	Melting point	: -94°C
f)	Boiling point range	: 56°C at 1,013 hPa (760 mmHg)
g)	pH	: Not available
h)	Density	: 0.79 g/cm ³
i)	Flash point	: -16.99°C - Closed Cup
j)	Evaporation rate	: Not available
k)	Flammability	: Not available
l)	Upper/lower flammability or explosive limits:	: Upper explosion limit: 13%(V) Lower explosion limit: 2%(V)
m)	Vapor pressure	: 30.93 kPa @ 25°C
n)	Vapor density	: Not available
o)	Relative density	: Not available
p)	Water solubility	: Miscible
q)	Partition coefficient:n-octanol/water	: log Pow: -0.24
r)	Autoignition temperature	: 465.0°C
s)	Decomposition temperature	: Not available

- t) Kinematic viscosity : Not available
- u) Explosive properties : Not available
- v) Oxidizing properties : Not available
- w) Solubility in other solvents : Not available
- x) Surface tension : Not available

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

No special reactivity is known.

10.2 Chemical stability

Risk of explosion. Product is stable when stored and used as recommended.

10.3 Stability note(s)

Avoid exposing the product to heat, flames, and sparks.

10.4 Polymerization

No known polymerization.

10.5 Possibility of hazardous reactions

No known hazardous reactions are possible.

10.6 Incompatible materials

Strong oxidizing agents and acids are incompatible with this product.

10.7 Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Acute toxicity

LD50 Oral : Rat - 9800 mg/kg

LD50 Dermal : Rabbit - 20,000 mg/kg

LC50 Inhalation : Rat - 76 mg/l (4 hours)

11.2 Skin corrosion/irritation

No skin/corrosion irritation data available.

11.3 Serious eye damage/eye irritation

Causes serious eye irritation.

11.4 Respiratory or skin sensitization

No sensitization data available.

11.5 Germ cell mutagenicity

No mutagenicity data available.

11.6 Carcinogenicity

IARC : Product and components are not regulated by the IARC.

ACGIH : Product and components are not regulated by the ACGIH.

NTP : Product and components are not regulated by the NTP.

OSHA : Product and components are not regulated by OSHA.

11.7 Reproductive toxicity

Suspected of damaging fertility or the unborn child.

11.8 Specific target organ toxicity – single exposure

Could cause respiratory tract irritation.

11.9 Specific target organ toxicity – repeated exposure

May cause damage to organs (blood) through prolonged or repeated exposure.

11.10 Aspiration hazard

No aspiration hazard data available.

11.11 Additional Information

RTECS: AL3150000.

Kidney - Irregularities - Based on Human Evidence.

Skin - Dermatitis - Based on Human Evidence.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

No ecological toxicity data available.

12.2 Aquatic toxicity

Species: Rainbow Trout (*Oncorhynchus mykiss*). Exposure: 96 hours. Results: LC50 5,540 mg/l.

Species: Water Flea (*Daphnia magna*). Exposure: 48 hours. Results: EC50 21.6 mg/l.

12.3 Persistence and degradability

No persistence/degradability data available.

12.4 Bioaccumulative potential

No bioaccumulation data available.

12.5 Mobility in soil

No soil mobility data available.

12.6 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment is not required/was not conducted.

12.7 Other adverse effect

No other adverse effect data available.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Product

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult and adhere to local, regional, and national hazardous waste regulations to ensure complete and accurate classification. Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable

13.2 Packaging

Packaging should be disposed of in the same manner as unused product.

13.3 Recommendation

Disposal must be made according to official regulations.

SECTION 14: TRANSPORTATION INFORMATION

14.1 DOT (US)

UN#1090
Class: 3
Packing group: II
Proper shipping name: Acetone
Reportable Quantity (RQ): 5000 lbs
Poison Inhalation Hazard: No

14.2 IMDG

UN#1090
Class: 3
Packing group: II
EMS-No: F-E, S-D
Proper shipping name: Acetone

14.3 IATA

UN#1090
Class: 3
Packing group: II
Proper shipping name: Acetone

SECTION 15: REGULATORY INFORMATION

15.1 SARA

SARA 302: This product and components are not subject to the reporting requirements of SARA Title III, Section 302.
SARA 313: This product does not contain any components with known CAS numbers that exceed the threshold reporting levels established by SARA Title III, Section 313.
SARA 311/312: Fire Hazard, Acute Health Hazard, Chronic Health Hazard

15.2 Clean water act (CWA)

No chemicals are present in this product that are subject to regulation under the Clean Water Act.

15.3 Right to know components

Massachusetts : Acetone CAS No.: 67-64-1

Pennsylvania : Acetone CAS No.: 67-64-1

New Jersey : No chemicals are present which require disclosure under the New Jersey Right to Know Act.

California proposition 65 components : This product contains no chemicals which are known to the State of California to cause cancer, or birth defects or other reproductive harm.

SECTION 16: OTHER INFORMATION

16.1 Disclaimer

This product is offered by Plantmedia for research, laboratory or further manufacturing use. Not for human use or consumption. The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchant-ability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall buffersandreagents.com be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if buffersandreagents.com has been advised of the possibility of such damages.

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16.2 Preparation Information

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