Safety Data Sheet

The Natural Choice for Flavor and Fragrance Ingredients

HEALTH	2
FLAMMABILITY	3
REACTIVITY	0

Section 1: IDENTIFICATION

Product Name:	2-Pentanone (Methyl Propyl Ketone), Natural
Product Number:	0284200
Recommended Use:	Flavorings
Manufacturer:	Aurochemicals 7 Nicoll Street Washingtonville, NY 10992 – USA
Emergency Telephone No.:	1-800-535-5053 (International 1-352-323-3500 collect)

Section 2: HAZARD(s) IDENTIFICATION

OSHA Hazards: Flammable liquid, Target Organ Effect, Harmful by ingestion, irritant

GHS Classification:
Flammable liquids (Category 2) H225
Acute toxicity, Oral (Category 4) H302
Skin irritation (Category 2) H315
Eye irritation (Category 2A) H319
Specific target organ toxicity-Single exposure Respiratory (Category 3) H335

GHS Label elements, including precautionary statements

Pictogram

Signal Word: Danger

Hazard Statement(s):

H225	Highly flammable liquid and vapor
H302	Harmful if swallowed
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation

Precautionary Statement(s):

P210	Keep away from heat/sparks/open flames/hot surfaces-No smoking Avoid breathing dust/fume/gas/mist/vapors/spray
P261	Avoid breathing dust/fume/gas/mist/vapors/spray
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

HMIS Classification

Health Hazard	2
Flammability	3
Physical Hazards	0

Potential Health Effects

Inhalation	May be harmful if inhaled. Causes respiratory tract irritation
Skin	Harmful if absorbed through skin. Causes skin irritation
Eyes	Causes eye irritation
Ingestion	Harmful if swallowed

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Synonyms	Methyl propyl ketone
Formula	$C_5H_{10}O$
Molecular Weight	86.13 g/mol
CAS #	107-87-9
EC#	203-528-1

Component		Concentration
Pentan-2-one	CAS-No. 107-87-9 EC-No. 203-528-1	-

Section 4: FIRST AID MEASURES

General Advise:	Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
Contact with eyes:	Rinse thoroughly with plenty of water for at least 15 minutes and seek medical advice.
Contact with skin:	Remove contaminated clothing. Rinse skin with cool water then wash with plenty of mild soap and warm water. Consult a physician
Inhalation:	Provide fresh air, Consult a physician
Ingestion:	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water, seek medical advice, show this container or label to attending physician
Clothing contamination:	Wash contaminated clothing before re-use

Section 5: FIREFIGHTING MEASURES

Suitable extinguishing media	For small (incipient) fires, use media such as alcohol foam, dry chemical or carbon dioxide. For large fires, apply water from as far away as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all containers with flooding quantities of water.
Special protective equipment for firefighters	Wear self contained breathing apparatus for firefighting if necessary
Other Information	Hazardous decomposition products formed under fire conditions – Carbon oxides. Use water spray to cool unopened containers.

Section 6: ACCIDENTIAL RELEASE MEASURES

Personal precautions	Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe area. Remove all sources of ignition. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.
Environmental-protected measures	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Procedures for cleaning / absorption	Soak up with inert absorbent material and dispose of as hazardous waste. Keep in

	suitable, closed containers for disposal
Ventilate area	After sweep up, wash area and ventilate area well

Section 7: HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapors or mist. Use explosion proof equipment. Keep away from sources of ignition-No Smoking. Take measures to prevent the build-up of electrostatic charge.
Conditions for safe storage	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store under inert gas.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits:		Components with workplace control parameters		
Components	CAS-No.	Value	Control Parameters	Basis
Pentan-2-one	107-87-9	STEL	150 ppm	USA. ACGIH Threshold Limit Values (TLV)
	Remarks: Pulmonary function Eye irritation			
		TWA	150 ppm 530 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	200 ppm 700 mg.m3	USA. Occupational Exposure Limits (OSHA) – Table Z-1 Limits for Air Contaminants
		The value in mg/m3 is approximate		
		TWA	200 ppm 700 mg.m3	USA. OSHA – Table Z-1 Limits for Air Contaminants 1910.1000
		STEL	250 ppm 875 mg/m3	USA. OSHA – Table Z-1 Limits for Air Contaminants 1910.1000

Personal Protective Equipment:	These recommendations are advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. They should not be construed as offering an approval for any specific use scenario.
Body Protection:	Clothing protecting against chemicals should be selected specifically for the work place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier
Respiratory Protection:	Where risk assessment shows air-purifying respirators are appropriate use a full face respirator with multi-purpose combination (US) or type ABEK (EN1437) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full face supplied air respirator. Tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU)
Eye Protection:	Wear appropriate safety glasses with side shields. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).
Hand Protection:	Wear chemically resistant Butyl rubber gloves 0.3 mm thick and use proper glove removal techniques to avoid skin contact with this product. Wash and dry hands after handling this product.

Industrial Hygiene:	Avoid contact with skin, eyes, and clothing. Handle in accordance with good industrial hygiene and safety practice. Wash contaminated clothing before reuse. Wash hands after working with product

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Form:	Liquid
Color:	Colorless
Odor:	Wine, Acetone-like
Melting Point	-78°C
Boiling Point:	101-103°C
Flashpoint:	7°C
Ignition temperature	505°C
Lower Explosion Limit	1.5% (V)
Upper Explosion Limit	8.2% (V)
Vapor Pressure:	36 hPa (27 mmHg) at 20°C
Specific Gravity @ 25°C:	0.801-812 g/cm3
Solubility	1:1 in 95% alcohol
Relative vapor density	2.97 (Air=1.0)

Section 10: STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions
Possibility of Hazardous reactions	Vapors may form explosive mixture with air
Conditions to avoid	Heat, Flame, Sparks – Extremes of temperature and direct sunlight
Materials to avoid	Oxidizing Agents, Strong Bases, Reducing Agents
Hazardous decomposition products	Hazardous decomposition products formed under fire conditions-Carbon oxides.

Section 11: TOXICOLOGICAL INFORMATION

LD50, Oral Rat	1,600 mg/kg
LC50 Inhalation	No data available
LD50 Dermal -Rabbit	6,500 mg/kg
Further toxicological information	No data available
Skin corrosion / irritation	Rabbit – Open irritation test
Serious eye damage / eye irritation	No data available
Respiratory or skin sensitization	No data available
Germ cell mutagenicity	No data available

Carcinogenicity

IARC	No component of this product, present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH	No component of this product, present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP	No component of this product, present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA	No component of this product, present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity	No data available
Specific target organ toxicity-Single Exposure (GHS)	Inhalation – May cause respiratory irritation
Specific target organ toxicity-Repeated Exposure (GHS)	No data available
Aspiration hazard	No data available
Potential health effects	Inhalation May be harmful if inhaled. Causes respiratory tract irritation Ingestion Harmful if swallowed Skin Harmful if absorbed through skin. Causes skin irritation Eyes Causes eye irritation
Signs and Symptoms of Exposure	Lowered blood pressure, Central nervous system depression, narcosis, Nausea, Dizziness, Headache, Exposure to and or consumption of alcohol may increase toxic effects.
Synergistic effects	No data available
RTECS	SA7875000

Section 12: ECOLOGICAL INFORMATION

Toxicity	
Toxicity to fish	LC50-Pimephales promelas (fathead minnow) – 1,240 mg/l – 96h
Other adverse effects	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Section 13: DISPOSAL CONSIDERATIONS

Product:	According to local regulations
Packaging:	According to local regulations

Section 14: TRANSPORT INFORMATION

DOT (US)	UN-Number 1249 Class 3 Packing Group II
Proper shipping name	Methyl propyl Ketone
Marine Pollutant	No
Poison inhalation hazard	No
IMDG	UN-Number 1249 Class 3 Packing Group II EMS-No: F-E, S-D
Proper shipping name	METHYL PROPYL KETONE
Marine Pollutant	No
IATA	UN-Number 1249 Class 3 Packing Group II
Proper shipping name	Methyl propyl ketone

Section 15: REGULATORY INFORMATION

OSHA Hazards	Flammable liquid, Target Organ Effect, Harmful by ingestion-Irritant
SARA 302	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302

SARA 313 Components	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313		
SARA 311/312 Hazards	Fire Hazard, Acute Health Hazard, Chronic Health Hazard		
Massachusetts Right to Know Components	Pentan-2-one	CAS # 107-87-9	Rev. Date: 4/24/1993
Pennsylvania Right to Know Components	Pentan-2-one	CAS # 107-87-9	Rev. Date: 4/24/1993
New Jersey Right to Know Components	Pentan-2-one	CAS # 107-87-9	Rev. Date: 4/24/1993
California Prop. 65 Components	This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm		

Section 16: OTHER INFORMATION

Aurochemicals provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. Aurochemicals makes no representations or warranties, either expressed or implied, including without limitation any warranties of merchantability, fitness for a particular purpose with respect to the information set forth herein or the product to which the information refers. Accordingly, Aurochemicals will not be responsible, nor held liable, for damages resulting from use of or reliance upon this information.

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