		SAFETY DATA SHEET Version 4.11 Revision Date 03/03/2011 Print Date 03/16/2010		
1. PF	RODUCT AND COMPANY	IDENTIFICATION		
1.1	Product identifiers Product name	² 3-Pentanone		
	Product Number Brand Index-No.	: 127604 : Sigma-Aldrich : 606-006-00-5		
	CAS-No.	: 96-22-0		
1.2	Relevant identified uses of the substance or mixture and uses advised against			
	Identified uses	: Laboratory chemicals, Manufacture of substances		
1.3	Details of the supplier of the safety data sheet			
	Company	: Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103 USA		
	Telephone Fax	: +1 800-325-5832 : +1 800-325-5052		
1.4	Emergency telephone number			
	Emergency Phone #	: (314) 776-6555		
2. HA	ZARDS IDENTIFICATION			
2.1	Classification of the substance or mixture			
	GHS Classification in accordance with 29 CFR 1910 (OSHA HCS) Flammable liquids (Category 2), H225 Eye irritation (Category 2A), H319 Specific target organ toxicity - single exposure (Category 3), Respiratory system, Central nervous system, H335, H336			

For the full text of the H-Statements mentioned in this Section, see Section 16.

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2.2 GHS Label elements, including precautionary statements

Pictogram		
Signal word	Danger	
Hazard statement(s)		
H225	Highly flammable liquid and vapour.	
H319	Causes serious eye irritation.	
H335	May cause respiratory irritation.	
H336	May cause drowsiness or dizziness.	
Precautionary statement(s)		
P210	Keep away from heat/sparks/open flames/hot surfaces No smoking.	
P233	Keep container tightly closed.	
P240	Ground/bond container and receiving equipment.	
Q P241	Use explosion-proof electrical/ ventilating/ lighting/ equipment.	
Q P242	Use only non-sparking tools.	
8 P243	Take precautionary measures against static discharge.	
O P241 O P242 O P243 O O N Sioma-Aldrich - 127604	· •	
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Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
Wash skin thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Wear protective gloves/ eye protection/ face protection.
IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/ attention.
In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
Store in a well-ventilated place. Keep container tightly closed.
Store in a well-ventilated place. Keep cool.
Store locked up.
Dispose of contents/ container to an approved waste disposal plant.

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

Repeated exposure may cause skin dryness or cracking.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances Synonyms	: Diethyl ketone
Formula	: C ₅ H ₁₀ O
Molecular weight	: 86.13 g/mol
CAS-No. EC-No.	: 96-22-0 : 202-490-3
Index-No.	: 606-006-00-5

Hazardous components

Component	and the second second	Classification	Concentration
Diethyl ketone			
-		Flam. Liq. 2; Eye Irrit. 2A;	<= 100 %
		STOT SE 3; H225, H319,	
		H335, H336	

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

3.1

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area. If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

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9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

10.07			
		Relative vapour density	2.97 - (Air = 1.0)
	- 4	Surface tension	25.33 mN/m at 15 ℃ (59 年)
9.2	,	er safety information	
	υ	Oxidizing properties	No data available
	s)	Explosive properties	No data available
	r)	Viscosity	No data available
	q)	Decomposition temperature	No data available
	p)	Auto-ignition temperature	No data available
	o)	Partition coefficient: n- octanol/water	log Pow: 0.85
	n)	Water solubility	slightly soluble
	m)	Relative density	0.813 g/cm3 at 25 °C (77 °F)
	I)	Vapour density	2.97 - (Air = 1.0)
	k)	Vapour pressure	37.5 hPa (28.1 mmHg) at 20 ℃ (68 ℉)
	j)	Upper/lower flammability or explosive limits	Upper explosion limit: 7.7 %(V) Lower explosion limit: 1.6 %(V)
	i)	Flammability (solid, gas)	No data available
	h)	Evaporation rate	No data available
	g)	Flash point	7 ℃ (45 年) - closed cup
	f)	Initial boiling point and boiling range	101.5 ℃ (214.7 ℉) - lit.
	e)	Melting point/freezing point	Melting point/range: -42 °C (-44 °F) - lit.
	d)	рН	6.2 at 50 g/l at 20 ℃ (68 年)
	C)	Odour Threshold	No data available
	b)	Odour	No data available
	a)	Appearance	Form: clear, liquid Colour: colourless
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10. STABILITY AND REACTIVITY

10.1	No data available		
10.	Chemical stability Stable under recommended storage conditions.		
10.3	Possibility of hazardous reactions Vapours may form explosive mixture with air.		
10.4	Conditions to avoid Heat, flames and sparks.		
0000603 Sign	Incompatible materials Oxidizing agents, Strong bases		
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10.6 Hazardous decomposition products

Other decomposition products - No data available In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity LD50 Oral - Rat - 2,140 mg/kg

LD50 Dermal - Rabbit - 16,260 mg/kg

No data available

Skin corrosion/irritation Skin - Rabbit

Result: Mild skin irritation - 24 h

Serious eye damage/eye irritation

Eyes - Rabbit Result: Moderate eye irritation

Respiratory or skin sensitisation 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

No data available

Specific target organ toxicity - single exposure May cause respiratory irritation.

May cause drowsiness or dizziness.

Specific target organ toxicity - repeated exposure No data available

Aspiration hazard No data available

Additional Information

RTECS: SA8050000

12. ECOLOGICAL INFORMATION

12.1 Toxicity

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- Toxicity to fish LC50 Pimephales promelas (fathead minnow) 1,470 1,600 mg/l 96 h
- 12.2 Persistence and degradability No data available

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