



1. Identification of the substance/preparation and of the company/undertaking

Chemical name	: Acetone
Product name	: Acetone
CAS number	: 67-64-1
National Inventory List	: TSCA 4(a) final test rules: Acetone United States inventory (TSCA 8b): This material is listed or exempted. TSCA 12(b) one-time export: Acetone Canada inventory : This material is listed or exempted. Europe inventory : This material is listed or exempted. Australia inventory (AICS): This material is listed or exempted. China inventory (IECSC): This material is listed or exempted. Japan inventory: This material is listed or exempted. Korea inventory: This material is listed or exempted. New Zealand Inventory of Chemicals (NZIoC): This material is listed or exempted. Philippines inventory (PICCS): This material is listed or exempted.
Prepared for	: KMK Regulatory Services inc.
Validation date	: 10/15/2009

2. Physical and chemical properties

Physical state	: Liquid.
Color	: Colorless.
Odor	: Ketone.
Molecular weight	: 58.09
Molecular formula	: C ₃ H ₆ O
pH	: Not available.
Boiling/condensation point	: 56.12°C (133°F)
Melting/freezing point	: -94.25°C (-137.6°F)
Relative density	: 0.791
Vapor pressure	: Not available.
Vapor density	: 2 [Air = 1]
Volatility	: 100% (v/v)
Odor threshold	: Not available.
Evaporation rate	: 6.06 (butyl acetate = 1)
Viscosity	: Not available.

3. Flammability

Flash point	: Closed cup: -18.15°C (-0.67°F) [Pensky-Martens.]
Auto-ignition temperature	: 464.85°C (868.7°F)
Flammable limits	: Not available.
Critical temperature	: 234.9°C (454.8°F)

4. Reactivity

Chemical stability	: The product is stable.
Oxidizing	: Not available.
Reactive with	: Reactive or incompatible with the following materials: oxidizing materials, acids and alkalis. Under normal conditions of storage and use, hazardous reactions will not occur.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

5. Toxicological Properties

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Acetone	LD50 Oral	Rat	5800 mg/kg	-

Inhalation	: Irritating to respiratory system.
Ingestion	: No known significant effects or critical hazards.
Skin	: Irritating to skin.
Eyes	: Irritating to eyes.

Chronic toxicity

Carcinogenicity

Product/ingredient name	ACGIH	IARC	EPA	NIOSH	NTP	OSHA
Acetone	A4	-	-	-	-	-

Target organs	: May cause damage to the following organs: upper respiratory tract, skin, eyes, central nervous system (CNS).
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IDLH	: 2500 ppm
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6. Ecotoxicity

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Environmental effects : Not established

Aquatic ecotoxicity

Product/ingredient name	Result	Species	Exposure
Acetone	Acute LC50 7550000 ug/L Fresh water Acute LC50 10000 ug/L Fresh water Acute LC50 >100000 ug/L Fresh water	Crustaceans - Asellus aquaticus Daphnia - Daphnia magna Fish - Pimephales promelas - Juvenile (Fledgling, Hatchling, Weanling) - 0.2 to 0.5 g	48 hours 48 hours 96 hours

Persistence/degradability

Product/ingredient name	Test	Result	Dose	Inoculum
Not available.				

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Not available.			

Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
Not available.			

AOX : Not available.

PBT : No.
P: Not available. B: Not available. T: No.

vPvB : Not available.
vP: Not available. vB: Not available.

Octanol/water partition coefficient : Not available.

Bioconcentration factor : Not available.

Toxicity of the products of biodegradation : Not available.

Biodegradability report : Not applicable.

7. Transport information

UN number : UN1090
Proper shipping name : ACETONE
Class : 3
Packing group : II



8. Regulatory information

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United States

HCS Classification : Flammable liquid
Irritating material
Target organ effects

HMIS

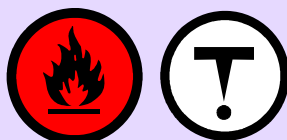
Health	Flammability	Physical hazards
1 *	3	0

NFPA

Health	Flammability	Reactivity	Other
1	3	0	

Canada

WHMIS (Canada) : Class B-2: Flammable liquid
Class D-2B: Material causing other toxic effects (Toxic).



EU regulations

Risk phrases : R11- Highly flammable.
R36- Irritating to eyes.
R66- Repeated exposure may cause skin dryness or cracking.
R67- Vapors may cause drowsiness and dizziness.



9. GHS Classification

United Nations - UN

Signal word : Danger

Hazard statements : Highly flammable liquid and vapor.
Causes skin irritation.
Causes eye irritation.
May cause damage to organs. (eyes, respiratory tract, skin)
May cause respiratory irritation.
May cause drowsiness and dizziness.
May cause damage to organs through prolonged or repeated exposure. (central nervous system (CNS))
Toxic to aquatic life.

Symbol :



Other hazards which do not result in classification : Not available.

9. GHS Classification

Classification of the substance or mixture : FLAMMABLE LIQUIDS - Category 2
 SKIN CORROSION/IRRITATION - Category 2
 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2B
 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) [eyes, respiratory tract and skin] - Category 2
 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) [Respiratory tract irritation and Narcotic effects] - Category 3
 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) [central nervous system (CNS)] - Category 2
 AQUATIC TOXICITY (ACUTE) - Category 2

Japan

Signal word : Danger

Hazard statements : Highly flammable liquid and vapor.
 Causes eye irritation.
 Suspected of damaging fertility or the unborn child.
 May be harmful if swallowed and enters airways.
 May cause respiratory irritation.
 May cause drowsiness and dizziness.
 May cause damage to organs through prolonged or repeated exposure. (blood system)

Symbol :



GHS Classification : FLAMMABLE LIQUIDS - Category 2
 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2B
 TOXIC TO REPRODUCTION [Fertility] - Category 2
 TOXIC TO REPRODUCTION [Unborn child] - Category 2
 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) [Respiratory tract irritation and Narcotic effects] - Category 3
 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) [blood system] - Category 2
 ASPIRATION HAZARD - Category 2

Europe

Signal word : Danger

Hazard statements : Highly flammable liquid and vapor.
 Causes serious eye irritation.
 May cause drowsiness and dizziness.
 Repeated exposure may cause skin dryness or cracking.

Symbol :



Classification of the substance or mixture : FLAMMABLE LIQUIDS - Category 2
 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2
 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) Narcotic effects - Category 3

10. References

- ANSI Z400.1, MSDS Standard, 2004.
- Manufacturer's Material Safety Data Sheet.
- 29CFR Part 1910.1200 OSHA MSDS Requirements.
- 49CFR Table List of Hazardous Materials, UN#, Proper Shipping Names, PG.
- Canada Gazette Part II, Vol. 122, No. 2. Registration SOR/88-64, 31 December 1987. Hazardous Products Act "Ingredient Disclosure List"
- Canadian Transport of Dangerous Goods, Regulations and Schedules, Clear Language version 2005.
- Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II
- NOHSC - National Occupational Health and Safety Commission
- "Classification and Mark for commonly used dangerous chemicals" (GB13690-1992)
- "General rules for preparation of a Chemical Safety Data Sheet" (GB16483-2000)
- "The principle of classification of transport packaging groups of dangerous goods" (GB/T15098-94)
- "Classification and code of dangerous goods" (GB6944-2005)
- In accordance with the provisions of Article 41, Industrial Safety and Health Act
- GHS - Globally Harmonized System of Classification and Labeling of Chemicals
- Regulation of Labelling and Hazard Communication of Dangerous and Harmful Materials



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6/6