Safety Data Sheet acc. to OSHA HCS

Printing date 08/30/2021

1 Identification

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Reviewed on 08/30/2021

• Article number: DC94	<u>in Acetone</u> 47 r of the safety data sheet er:	AQUA
 Information department Technical Coordinato Sherman Nelson sherr Emergency telephone Chemtrec: 800-424-9. Canutec: 613-996-660 	r nann@aquasolutions.org n umber: 300	
2 Hazard(s) identified	cation	
Classification of the s GHS02 Fla Flam. Liq. 2 H225 H GHS08 Hea	me ighly flammable liquid and vapor.	
STOT RE 2 H373 M	ay cause damage to organs through prolon	nged or repeated exposure.
	auses serious eye irritation.	
	ay cause an allergic skin reaction. ay cause drowsiness or dizziness.	
· Label elements · GHS label elements 7 · Hazard pictograms	he product is classified and labeled accord	ling to the Globally Harmonized System (GHS).
GHS02 GHS07	GHS08	
• Signal word Danger		
Hazand dotomining		
Acetone	components of labeling:	

Printing date 08/30/2021

Reviewed on 08/30/2021

Trade name: Phenothiazine

4% w/w in Acetone

Hazard statements	(Contd. of page 1)
Hazara statements Highly flammable liquid and vapor.	
Causes serious eye irritation.	
May cause an allergic skin reaction.	
May cause drowsiness or dizziness.	
May cause damage to organs through prolonged or repeated exposure.	
Precautionary statements	
Keep away from heat/sparks/open flames/hot surfaces No smoking.	
Ground/bond container and receiving equipment.	
Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools.	
Take precautionary measures against static discharge.	
Do not breathe dust/fume/gas/mist/vapors/spray.	
Wash thoroughly after handling.	
Use only outdoors or in a well-ventilated area.	
Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection.	
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower	•
IF INHALED: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present	and each to do
Continue rinsing.	ana easy to ao.
Call a poison center/doctor if you feel unwell. Specific treatment (see on this label).	
Get medical advice/attention if you feel unwell. If skin irritation or rash occurs: Get medical advice/attention.	
If eye irritation persists: Get medical advice/attention.	
Wash contaminated clothing before reuse.	
In case of fire: Use CO2, powder or water spray to extinguish.	
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 in accordance with local/regional/national/international regulation	15
Classification system:	
NFPA ratings (scale 0 - 4)	
Health = 2	
Fire = 3	
$\frac{2}{Reactivity} = 0$	
• HMIS-ratings (scale 0 - 4)	
$\begin{array}{c c} \text{HEALTH} & 2 \end{array} \\ Health = 2 \end{array}$	
FIRE 3 $Fire = 3$	
REACTIVITY 0 Reactivity = 0	
Other hazards	
Results of PBT and vPvB assessment	
• PBT: Not applicable.	
• vPvB: Not applicable.	
	US- (Contd. on page 3)

Printing date 08/30/2021

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Trade name: Phenothiazine

4% w/w in Acetone

(Contd. of page 2)

96.0% 4.0%

3 Composition/information on ingredients

· Chemical characterization: Mixtures

• Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerous	components:	
-------------	-------------	--

CAS: 67-64-1	Acetone
CAS: 92-84-2	Phenothiazine

4 First-aid measures

- · Description of first aid measures
- · General information:
- Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

• After inhalation:

Supply fresh air and to be sure call for a doctor.

- In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact:
- Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing: If symptoms persist consult doctor.
- Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents:
- CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Special hazards arising from the substance or mixture
- During heating or in case of fire poisonous gases are produced.
- · Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures Mount respiratory protective device. Wear protective equipment. Keep unprotected persons away.
Environmental precautions: Dilute with plenty of water. Do not allow to enter sewers/ surface or ground water.
Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.

(Contd. on page 4)

US

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Printing date 08/30/2021

Reviewed on 08/30/2021

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	(Contd. of page 3)
• Reference to other sections See Section 7 for information on safe handling.	
See Section 8 for information on personal protection equipment.	
See Section 13 for disposal information.	
· Protective Action Criteria for Chemicals	
· PAC-1:	
CAS: 67-64-1 Acetone	200 ppm
· PAC-2:	
CAS: 67-64-1 Acetone	3200* ppm
· PAC-3:	
CAS: 67-64-1 Acetone	5700* ppm

7 Handling and storage

· Handling:

- *Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.*
- Prevent formation of aerosols.
- Information about protection against explosions and fires: Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Keep respiratory protective device available.
- · Conditions for safe storage, including any incompatibilities

· Storage:

• Requirements to be met by storerooms and receptacles: Store in a cool location.

· Information about storage in one common storage facility: Not required.

• Further information about storage conditions:

Keep receptacle tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

• Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

• Additional information about design of technical systems: No further data; see item 7.

CAS	5: 67-64-1 Acetone
PEL	Long-term value: 2400 mg/m ³ , 1000 ppm
REL	Long-term value: 590 mg/m ³ , 250 ppm
TLV	Short-term value: 500 ppm
	Long-term value: 250 ppm
	A4, BEI
CAS	: 92-84-2 Phenothiazine
REL	Long-term value: 5 ppm
	Skin

(Contd. of page 4)

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TLV Long-term value: 5 mg/m³ Skin

· Ingredients with biological limit values:

CAS: 67-64-1 Acetone

BEI 25 mg/L

LD50 Intraperitoneal: urine Time: end of shift LD50: Acetone (nonspecific)

• Additional information: The lists that were valid during the creation were used as basis.

- · Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Store protective clothing separately. Avoid contact with the eyes. Avoid contact with the eyes and skin.

• Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

• Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation \cdot *Material of gloves*

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

• Eye protection:



Tightly sealed goggles

· Body protection: Protective work clothing

(Contd. on page 6)

Printing date 08/30/2021

Reviewed on 08/30/2021

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(Contd. of page 5)

Information on basic physical and che	mical properties
General Information	
Appearance:	
Form:	Liquid
Color:	Yellow
· Odor: · Odor threshold:	Characteristic Not determined.
pH-value:	Not determined.
Change in condition	04.7.9C(120.5.9E)
Melting point/Melting range: Boiling point/Boiling range:	-94.7 °C (-138.5 °F) 55 °C (131 °F)
Flash point:	-17 °C (1.4 °F)
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	465 °C (869 °F)
Decomposition temperature:	Not determined.
Auto igniting:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapo mixtures are possible.
Explosion limits:	
Lower:	2.6 Vol %
Upper:	13 Vol %
· Vapor pressure at 20 °C (68 °F):	233 hPa (174.8 mm Hg)
Density at 20 °C (68 °F):	0.79 g/cm ³ (6.59255 lbs/gal)
Relative density	Not determined.
· Vapor density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
Water:	Fully miscible.
Partition coefficient (n-octanol/water):	Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent content:	
Organic solvents:	96.0 %
VOC content:	0.00 %
	0.0 g/l / 0.00 lb/gal
Solids content:	4.0 %
• Other information	No further relevant information available.

(Contd. on page 7)

Printing date 08/30/2021

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(Contd. of page 6)

10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

· Information on toxicological effects

• Acute toxicity:

· LD/LC50 values that are relevant for classification:

ATE (Acute Toxicity Estimate)

Oral LD50 34,250 mg/kg (rat)

Dermal LD50 50,000 mg/kg (rat)

- Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: Irritating effect.
- Sensitization: Sensitization possible through skin contact.
- · Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations: Irritant

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- Additional ecological information:

· General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.

(Contd. on page 8)

US

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(Contd. of page 7)

· vPvB: Not applicable.

• Other adverse effects No further relevant information available.

13 Disposal considerations

· Waste treatment methods

· Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- Recommendation: Disposal must be made according to official regulations.
- Recommended cleansing agent: Water, if necessary with cleansing agents.

UN-Number		
DOT, IMDG, IATA	UN1993	
UN proper shipping name		
DOT	Flammable liquids, n.o.s. (Acetone)	
IMDG, IATA	FLAMMABLE LIQUID, N.O.S. (ACETONE)	
Transport hazard class(es)		
DOT		
PERMIABLE LIGIO		
V		
Class	3 Flammable liquids	
Label	J	
IMDG, IATA		
3		
	2 Elanna abla lianida	
	3 Flammable liquids	
Class Label	3 Flammable liquids 3	
Label Packing group	3	
Label Packing group DOT, IMDG, IATA		
Label Packing group DOT, IMDG, IATA Environmental hazards:	3 11	
Label Packing group	3 11 No	
Label Packing group DOT, IMDG, IATA Environmental hazards: Marine pollutant: Special precautions for user	3 II No Warning: Flammable liquids	
Label Packing group DOT, IMDG, IATA Environmental hazards: Marine pollutant: Special precautions for user Hazard identification number (Kemler cody	3 II No Warning: Flammable liquids e): 33	
Label Packing group DOT, IMDG, IATA Environmental hazards: Marine pollutant: Special precautions for user Hazard identification number (Kemler code EMS Number:	3 II No Warning: Flammable liquids e): 33 F-E, <u>S-E</u>	
Label Packing group DOT, IMDG, IATA Environmental hazards: Marine pollutant: Special precautions for user Hazard identification number (Kemler codu	3 II No Warning: Flammable liquids e): 33 F-E, <u>S-E</u> B	

ACTIVE

ACTIVE

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Trade name: Phenothiazine

4% w/w in Acetone

	(Contd. of page 8)
· Transport/Additional information:	
·DOT	
• Quantity limitations	On passenger aircraft/rail: 5 L
	On cargo aircraft only: 60 L
· IMDG	
· Limited quantities (LQ)	1L
\cdot Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
· UN ''Model Regulation'':	UN 1993 FLAMMABLE LIQUID, N.O.S. (ACETONE), 3, II

15 Regulatory information

• Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

· Sara

• Section 355 (extremely hazardous substances):

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

· TSCA (Toxic Substances Control Act):

Acetone

Phenothiazine

· Hazardous Air Pollutants

None of the ingredients is listed.

· Proposition 65

· Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Carcinogenic categories

· EPA (Environmental Protection Agency)

CAS: 67-64-1 Acetone

• TLV (Threshold Limit Value)

CAS: 67-64-1 Acetone

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

• GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS). (Contd. on page 10)

Printing date 08/30/2021

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Trade name: Phenothiazine 4% w/w in Acetone

(Contd. of page 9) · Hazard pictograms GHS02 GHS07 GHS08 · Signal word Danger · Hazard-determining components of labeling: Acetone Phenothiazine · Hazard statements Highly flammable liquid and vapor. Causes serious eye irritation. May cause an allergic skin reaction. May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated exposure. · Precautionary statements Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison center/doctor if you feel unwell. Specific treatment (see on this label). Get medical advice/attention if you feel unwell. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Wash contaminated clothing before reuse. In case of fire: Use CO2, powder or water spray to extinguish. 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 in accordance with local/regional/national/international regulations. · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

• Department issuing SDS: Environment protection department.

· Contact:

(Contd. on page 11)

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Printing date 08/30/2021

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Trade name: Phenothiazine

4% w/w in Acetone

	(Contd. of page 10
Date of preparation / last revision	
<i>Revision 2.0, 01-12-2020: Updated sections 1, 2 and 15 to meet Fanns new requirements</i>	
Revision 0.2, 08-26-2021 Changed a raw material. STN	
08/30/2021 / 1.0	
Abbreviations and acronyms:	
IMDG: International Maritime Code for Dangerous Goods	
DOT: US Department of Transportation	
IATA: International Air Transport Association	
EINECS: European Inventory of Existing Commercial Chemical Substances	
ELINCS: European List of Notified Chemical Substances	
CAS: Chemical Abstracts Service (division of the American Chemical Society)	
NFPA: National Fire Protection Association (USA)	
HMIS: Hazardous Materials Identification System (USA)	
VOC: Volatile Organic Compounds (USA, EU)	
LC50: Lethal concentration, 50 percent	
LD50: Lethal dose, 50 percent	
PBT: Persistent, Bioaccumulative and Toxic	
vPvB: very Persistent and very Bioaccumulative	
NIOSH: National Institute for Occupational Safety	
OSHA: Occupational Safety & Health	
TLV: Threshold Limit Value	
PEL: Permissible Exposure Limit	
REL: Recommended Exposure Limit	
BEI: Biological Exposure Limit	
Flam. Liq. 2: Flammable liquids – Category 2	
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A	
Skin Sens. 1: Skin sensitisation – Category 1	
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3	
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2	
* Data compared to the previous version altered.	
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