Material Safety Data Sheet

Printing date 09/29/2011

Reviewed on 09/09/2010

Page 1/7

1 Identification of the substance/mixture and of the company/undertaking
· Product identifier
· Trade name: ProChip Acetonitrile, 2 ml
 Catalog or product number: 10013875, 10013876 CAS Number: 75-05-8 EC number: 200-835-2 Index number: 608-001-00-3 Application of the substance / the preparation Laboratory chemicals
Details of the supplier of the safety data sheet Manufacturer/Supplier: Bio-Rad Laboratories, Life Science Group 2000 Alfred Nobel Drive Hercules, California 94547 (510)741-1000
 Information department: Technical services, customer support. Emergency telephone number: 1(800)424-9300 Use only in the event of a CHEMICAL EMERGENCY involving a SPILL, LEAK, FIRE, EXPLOSION of ACCIDENT. 510-741-1000
2 Composition/information on ingredients

- Chemical characterization: Sull
 CAS No. Description:
- 75-05-8 acetonitrile
- · Identification number(s):
- EC number: 200-835-2
- · Index number: 608-001-00-3
- · Additional information: For the wording of the listed risk phrases refer to section 15.

3 Hazards identification

- · Classification of the substance or mixture
- · Classification according to Directive 67/548/EEC or Directive 1999/45/EC

Irritant to eye	S.
Irritant to skir).
Flammable.	
Xn; Harmful	
R20/21/22:	Harmful by inhalation, in contact with skin and if swallowed.
Xi; Irritant	
R36:	Irritating to eyes.
F; Highly flan	nmable
R11:	Highly flammable.
Classificatio	n system:
	ation was made according to OSHA 29CFR 1910.1200 and 1910.1030, and is expanded upon from company ure information.
	(Contd. on page 2)

Material Safety Data Sheet

Page 2/7

Printing date 09/29/2011

Reviewed on 09/09/2010

Trade name: ProChip Acetonitrile, 2 ml

(Contd. of page 1)

· Label elements

 Labelling according to EU guidelines: The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials

· Code letter and hazard designation of product:



Xn Harmful F Highly flammable

· Risk phrases:

11 Highly flammable.

20/21/22 Harmful by inhalation, in contact with skin and if swallowed.36 Irritating to eyes.

· Safety phrases:

1/2 Keep locked up and out of the reach of children.16 Keep away from sources of ignition - No smoking.

36/37 Wear suitable protective clothing and gloves.

- Emergency overview:

• **Routes of exposure:** Ingestion Inhalation Skin

4 First aid measures

General information

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. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. In case of unconsciousness place patient stably in side position for transportation.

- After skin contact Generally the product does not irritate the skin.
- After eye contact Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- · After swallowing Immediately call a doctor.

5 Firefighting measures

· 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 No further relevant information available.
- · Protective equipment:

Mount respiratory protective device. Wear self-contained respiratory protective device.

6 Accidental release measures

• Personal precautions, protective equipment and emergency procedures Wear protective equipment (See section 8). Keep unprotected persons away.

(Contd. on page 3)

Material Safety Data Sheet

Printing date 09/29/2011

Reviewed on 09/09/2010

Trade name: ProChip Acetonitrile, 2 ml

(Contd. of page 2)

• Environmental precautions: Prevent seepage into sewage system, workpits and cellars. 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.

• **Reference to other sections** See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

7 Handling and storage

· Handling

- Precautions for safe handling Ensure good ventilation/exhaustion at the workplace. No special precautions are necessary if used correctly.
- Information about protection against explosions and fires: Keep ignition sources away - Do not smoke. Protect against electrostatic charges.
- · 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.

· Components with limit values that require monitoring at the workplace:

•	, , ,	
75-05-8 acetonitrile		
	70 mg/m³, 40 ppm	
	34 mg/m³, 20 ppm	
TLV	34 mg/m ³ , 20 ppm	
	Skin	
· Addi	tional information: The lists that were valid during the creation were used as basis.	
· Perso	onal protective equipment	
· Gene	ral protective and hygienic measures	
Keep	away from foodstuffs, beverages and feed.	
Imme	diately remove all soiled and contaminated clothing	
Wash	hands before breaks and at the end of work.	
Avoia	I contact with the eyes.	
Avoio	I contact with the eves and skin	

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.

(Contd. on page 4)

Material Safety Data Sheet

Printing date 09/29/2011

Reviewed on 09/09/2010

Trade name: ProChip Acetonitrile, 2 ml

(Contd. of page 3)

• Material of gloves Synthetic gloves • 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:** Safety glasses

Tightly sealed goggles.

9 Physical and chemical p	roperties
· General Information	
· Appearance:	
Form:	liquid
Color:	Colorless
· Odor:	Aromatic
· Change in condition	
Melting point/Melting range:	: -46°C
Boiling point/Boiling range:	81°C
· Flash point:	≤21°C
· Ignition temperature:	525°C
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
· Explosion limits:	
Lower:	4.4 Vol %
Upper:	16 Vol %
· Vapor pressure at 20°C:	97 hPa
· Density at 20°C:	0.7822 g/cm ³
· Solubility in / Miscibility with	
Water:	Fully miscible
Organic solvents:	0.0 %
· Other information	No further relevant information available.

10 Stability and reactivity

· Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

· Incompatible materials: No further relevant information available.

· Hazardous decomposition products: No dangerous decomposition products known

11 Toxicological information

· Acute toxicity:

· LD/LC50 values for hazardous components per OSHA criteria:
75-05-8 acetonitrile

Oral LD50 2730 mg/kg (rat)

Dermal LD50 1250 mg/kg (rbt)

(Contd. on page 5)

USA

Material Safety Data Sheet

Printing date 09/29/2011

Reviewed on 09/09/2010

Trade name: ProChip Acetonitrile, 2 ml

(Contd. of page 4)

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- · Primary irritant effect:
- on the skin: Irritant to skin and mucous membranes.
- · on the eye: Irritant effect.
- · Sensitization: No sensitizing effects known.
- · Target organs:
- Skin.
- Eye.

Respiratory tract.

12 Ecological information

- · Acquatic 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.
- · Additional ecological information:
- · General notes:

Water hazard class 2 (Assessment by list): hazardous for water. Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation Hand over to hazardous waste disposers.
- · Uncleaned packagings:
- Recommendation: Disposal must be made according to official regulations.
- · Recommended cleansing agent: Water, if necessary with cleansing agents.

UN-Number		
DOT	UN1648	
ADR, IMDG, IATA	1648	
UN proper shipping name		
DOT, IMDG, IATA	ACETONITRILE	
ADR	1648 ACETONITRILE	
Transport hazard class(es)		
DOT, IMDG, IATA		
Class	3 Flammable liquids.	
Label	3	
ADR		
Class	3 Flammable liquids	
Label	3	

Material Safety Data Sheet

Reviewed on 09/09/2010

Trade name: ProChip Acetonitrile, 2 ml

Packing group DOT, ADR, IMDG, IATA	(Contd. of
Environmental hazards: Marine pollutant:	No
Special precautions for user	Warning: Flammable liquids
Danger code (Kemler):	33
EMS Number:	F-E,S-D

15 Regulatory information

SARA (Superfund Amendents and Reauthorization Act of 1986 - USA)
· Section 302/304 (40CFR355.30 / 40CFR355.40):
Substance not listed.
· Section 313 (40CFR372.65):
Substance is listed.

• TSCA (Toxic Substances Control Act):

Substance is listed.

· Carcinogenic categories

• EPA (Environmental Protection Agency)

75-05-8 acetonitrile

· IARC (International Agency for Research on Cancer)

Substance is not listed.

· NTP (National Toxicology Program)

Substance is not listed.

· TLV (Threshold Limit Value established by ACGIH)

75-05-8 acetonitrile

· MAK (German Maximum Workplace Concentration)

Substance is not listed.

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

Substance is not listed.

· OSHA-Ca (Occupational Safety & Health Administration)

Substance is not listed.

· National regulations

• Water hazard class: Water hazard class 2 (Assessment by list): hazardous for water.

(Contd. on page 7)

USA

CBD

A4

Material Safety Data Sheet

Printing date 09/29/2011

Reviewed on 09/09/2010

Trade name: ProChip Acetonitrile, 2 ml

(Contd. of page 6)

USA

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 MSDS: Environmental Health and Safety.

· Contact:

Life Science Group, Environmental Health and Safety, 2000 Alfred Nobel Drive, Hercules, California, 94547: 1(510) 741-1000

Diagnostic Group, Environmental Health and Safety, 4000 Alfred Nobel Drive, Hercules, California, 94547: 1(510) 724-7000 · * **Data compared to the previous version altered.**