

103 / AMINO

Raw and Auxilliary Chemicals
to be stored at
A50 Industrial Estate,
Marsa

Raw and Auxilliary Chemicals to be stored

METHANOL

TETRAHYDROFURANE

ETHYLACETATE

TOLUENE

ACETONE

AMINO CHEMICALS Ltd

A-61 Industrial Estate
LQA 06 MARSA
MALTA
Tel: ++356-21249223
Fax: ++356-21249226

SAFETY SHEET

Date of issue : 10-02-2006

Revision date : 19-02-2006

sheet n° 03

1. PRODUCT IDENTIFICATION

Common name : Mixture of solvents n° 1

Molecular formula: //

Synonyms : //

Labelling : Hazard symbol

Structure formula: //

Cross
FlameXn: harmful
F: flammable**2. COMPOSITION / INFORMATION
ON INGREDIENTS**

Common name : MIXTURE OF SOLVENTS

Chemical name : Acetonitrile, Acetone, Ethanol, Methanol, Isopropanol, Ethyl acetate, sec-Butanol, n-Heptane,
Tetrahydrofuran, Toluene.

n° CAS :

n° EEC : not classified

n° EINECS :

3. HAZARDS IDENTIFICATION

SKIN CONTACT	: Tightly harmful, may cause irritation.
EYE CONTACT	: May cause tight irritation, redness and swelling of the conjunctivas
INHALATION	: Irritant if inhaled, may cause sensitisation of respiratory tract.
SWALLOWING	: Harmful if ingested.
EFFECTS OF OVEREXPOSURE	: May irritate mucous and higher respiratory passage. May cause allergic reaction in some sensible subject.

4. FIRST AID MEASURES

SKIN CONTACT	: Remove contaminated clothing. Wash skin with soap and water. If irritation persists or if contact has been prolonged, obtain medical attention.
EYE CONTACT	: Flush eyes with water and continue washing for several minutes. Remove contact lenses, if worn. Obtain medical attention.
INHALATION	: Remove to fresh air. Give artificial respiration if not breathing. If breathing is difficult, oxygen may be given by qualified personnel. Obtain medical attention.
SWALLOWING	: If patient is fully conscious, give two glasses of water, induce vomiting. Obtain medical attention.
OTHER INFORMATION	: Wash clothing before reuse.

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5. FIRE – FIGHTING MEASURES

EXTINGUISHING MEDIA

Apply carbon dioxide, dry chemical powder, polymer foam; water may be effective for cooling.

PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Use self-contained breathing apparatus and protective clothing.

HAZARDOUS COMBUSTION PRODUCTS

Carbon monoxide, carbon dioxide, nitrogen oxides .

6. ACCIDENTAL RELEASE MEASURES

Steps to be taken if material is released or spilled!

Wear suitable protective equipment. Remove ignition sources, pick up the product in a container and flush with large amounts of water.

7. HANDLING AND STORAGE

HANDLING : Handle with care. Do not breathe vapour, do not swallow. Accidental contact should be washed away immediately. Wash thoroughly after handling.

STORAGE : Keep away from hot and flame. Keep in well-sealed container away from light.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

PERSONAL PROTECTION : Use approved respirator in high concentration, use appropriate rubber gloves and safety glasses

EXPOSURE LIMITS	: TLV /TWA	: not available
	TLV/STEL	: not available
	ODOR THRESHOLD	: not available

9. PHYSICAL AND CHEMICAL PROPERTIES

physical state	:	liquid	molecular weight	:	not applicable
Melting point	°C	: not applicable	pH	:	7.5-8.5
Boiling point	°C	: not available	colour	:	Light yellow
Flash point	°C	: not available	odour	:	characteristic
specific gravity (at 20 °C)	g/dm ³	: 0.850 ± 0.5	vapour pressure (at 20 °C) Pa	:	not available
vapour density	:	: not applicable	fat solubility	:	not applicable
solubility in water (at 20 °C)	g/l	: not applicable	viscosity	cps	: not available
solubility in solvents (at 20 °C)	g/l	: not applicable			
heat of combustion	Kj/Kg	: not available			
decomposition point	°C	: not available			
autoignition point	°C	: not available			
flammable limits	less than %	: not available			
	more than %	: not available			

10. STABILITY AND REACTIVITY

STABILITY :	not available
INCOMPATIBILITY:	None currently known.
CONDITIONS TO AVOID:	Open flame, sparks or ignition sources contact with excessive heat.
HAZARDOUS DECOMPOSITION PRODUCTS:	The combustion can produce: carbon monoxide, carbon dioxide, nitrogen oxide.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:	DL50 (oral rat)	not available
	LC50 (inhal)	not available
OTHER INFORMATION:	none currently known	
CHRONIC TOXICITY:	Carcinogenicity	not available
	Genotoxicity	not available
	Teratogenicity	not available
SENSITIZATION:	not available	

12. ECOLOGICAL INFORMATION

MOBILITY:		No information currently available
DEGRADABILITY:	BOD	No information currently available
	COD	No information currently available
ACCUMULATION:	Log P (Oct/H ₂ O)	No information currently available
ECOTOXICITY:	LC 50	No information currently available
	EC 50	No information currently available
OTHER INFORMATION:	No information currently available	

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD:

This material should be disposed of in accordance with local, state , and/or federal regulations

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14. TRANSPORT INFORMATION

TRANSPORT CLASSIFICATION:

ADR/RID:	cl. 3	n° CUS:	not available
IMO:	cl. 3.2	n° ONU:	see enclosure list
IATA:	cl. 3	n° NC custom:	//

May be subject to international and/or local transportation requirements.

15. REGULATORY INFORMATION

In accordance with 25° adjustment of 67/548 CEE

RISK PHRASES:

R-11: easily flammable
R 20/21/22 Harmful if inhaled, swallowed and skin contacted.

R-36: eyes irritating

PRUDENCE ADVICES:

S-2 Keep out of reach of children

S-3 Keep in cool place

S-15 Keep away from heat

S-16 : Keep out from flames and sparks. Don't smoking

S-23: Don't inhale gas, fumes, vapours, aerosol

S-24/25: Eliminate any contact with eyes

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 36-37 Wear suitable and protective clothes

16. OTHER INFORMATION

This information is based on our present state of knowledge and is intended to describe our product from the point of view of the safety requirements.

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AMINO CHEMICALS Ltd

A-61 Industrial Estate

LQA 06 MARSA

MALTA

Tel: ++356-21249223

Fax: ++356-21249226

SAFETY SHEET

Date of issue : 10-02-2006

Revision date : 19-10-06

sheet n° 04

1. PRODUCT IDENTIFICATION

Common name : Mixture of solvents n° 2

Molecular formula: //

Synonyms : //

Labelling :

Hazard symbol

Structure formula: //

Cross
Flame

Xn: harmful
F: flammable

2. COMPOSITION / INFORMATION ON INGREDIENTS

Common name : MIXTURE OF SOLVENTS

Chemical name : Acetonitrile, Acetone, Isopropanol, Ethyl acetate, Methanol, Sec-butanol, Tetrahydrofuran,
Toluene.

n° CAS :

n° EEC : not classified

n° EINECS :

3. HAZARDS IDENTIFICATION

SKIN CONTACT	: Tightly harmful, may cause irritation.
EYE CONTACT	: May cause tight irritation, redness and swelling of the conjunctivas
INHALATION	: Irritant if inhaled, may cause sensitisation of respiratory tract.
SWALLOWING	Harmful if ingested.
EFFECTS OF OVEREXPOSURE	May irritate mucous and higher respiratory passage. May cause allergic reaction in some sensible subject.

4. FIRST AID MEASURES

SKIN CONTACT	: Remove contaminated clothing. Wash skin with soap and water. If irritation persists or if contact has been prolonged, obtain medical attention.
EYE CONTACT	: Flush eyes with water and continue washing for several minutes. Remove contact lenses, if worn. Obtain medical attention.
INHALATION	: Remove to fresh air. Give artificial respiration if not breathing. If breathing is difficult, oxygen may be given by qualified personnel. Obtain medical attention.
SWALLOWING	: If patient is fully conscious, give two glasses of water, induce vomiting. Obtain medical attention.
OTHER INFORMATION	: Wash clothing before reuse.

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5. FIRE – FIGHTING MEASURES

EXTINGUISHING MEDIA

Apply carbon dioxide, dry chemical powder, polymer foam; water may be effective for cooling.

PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Use self-contained breathing apparatus and protective clothing.

HAZARDOUS COMBUSTION PRODUCTS

Carbon monoxide, carbon dioxide, nitrogen oxides.

6. ACCIDENTAL RELEASE MEASURES

Steps to be taken if material is released or spilled!

Wear suitable protective equipment. Remove ignition sources, pick up the product in a container and flush with large amounts of water.

7. HANDLING AND STORAGE

HANDLING : Handle with care. Do not breathe vapour, do not swallow. Accidental contact should be washed away immediately. Wash thoroughly after handling.

STORAGE : Keep away from hot and flame. Keep in well-sealed container away from light.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

PERSONAL PROTECTION : Use approved respirator in high concentration, use appropriate rubber gloves and safety glasses

EXPOSURE LIMITS	: TLV /TWA	: not available
	TLV/STEL	: not available
	ODOR THRESHOLD	: not available

9. PHYSICAL AND CHEMICAL PROPERTIES

physical state	:	liquid	molecular weight	:	not applicable
Melting point	°C	: not applicable	pH	:	7.5-8.5
Boiling point	°C	: not available	colour	:	Light yellow
Flash point	°C	: not available	odour	:	characteristic
specific gravity (at 20 °C)	g/dm ³	: 0.850 ± 0.5	vapour pressure (at 20 °C) Pa	:	not available
vapour density		: not applicable	fat solubility	:	not applicable
solubility in water (at 20 °C)	g/l	: not applicable	viscosity	cps	: not available
solubility in solvents (at 20 °C)	g/l	: not applicable			
heat of combustion	Kj/Kg	: not available			

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decomposition point	°C	:	not available
autoignition point	°C	:	not available
flammable limits	less than %	:	not available
	more than %	:	not available

10. STABILITY AND REACTIVITY

STABILITY :	not available
INCOMPATIBILITY:	None currently known.
CONDITIONS TO AVOID:	Open flame, sparks or ignition sources contact with excessive heat.
HAZARDOUS DECOMPOSITION PRODUCTS:	The combustion can produce: carbon monoxide, carbon dioxide, nitrogen oxide.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:	DL50 (oral rat)	not available
	LC50 (inhal)	not available
OTHER INFORMATION:		none currently known
CHRONIC TOXICITY:	Carcinogenicity	not available
	Genotoxicity	not available
	Teratogenicity	not available
SENSITIZATION:		not available

12. ECOLOGICAL INFORMATION

MOBILITY:		No information currently available
DEGRADABILITY:	BOD	No information currently available
	COD	No information currently available
ACCUMULATION:	Log P	No information currently available
	(Oct/H ₂ O)	
ECOTOXICITY:	LC 50	No information currently available
	EC 50	No information currently available
OTHER INFORMATION:		No information currently available

COPY

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD:

This material should be disposed of in accordance with local, state, and/or federal regulations.

14. TRANSPORT INFORMATION

TRANSPORT CLASSIFICATION:

ADR/RID:	cl. 3	n° CUS:	not available
IMO:	cl. 3.2	n° ONU:	see enclosure list
IATA:	cl. 3	n° NC custom:	//

May be subject to international and/or local transportation requirements.

15. REGULATORY INFORMATION

In accordance with 25° adjustment of 67/548 CEE

RISK PHRASES:

R-11: easily flammable
R 20/21/22 Harmful if inhaled, swallowed and skin contacted.
R-36: eyes irritating

PRUDENCE ADVICES:

S-2 Keep out of reach of children
S-3 Keep in cool place
S-15 Keep away from heat
S-16 : Keep out from flames and sparks. Don't smoking
S-23: Don't inhale gas, fumes, vapours, aerosol
S-24/25: Eliminate any contact with eyes
S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S 36-37 Wear suitable and protective clothes

16. OTHER INFORMATION

This information is based on our present state of knowledge and is intended to describe our product from the point of view of the safety requirements.

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AMINO CHEMICALS Ltd

A-61 Industrial Estate
LQA 06 MARSA
MALTA
Tel: ++356-21249223
Fax: ++356-21249226

SAFETY SHEET

Date of issue : 10-2-2006

Revision date : 19-10-2006

sheet n° 04

1. PRODUCT IDENTIFICATION

Common name : Mixture of solvents n° 3

Molecular formula: //

Synonyms : //

Labelling :

Hazard symbol

Structure formula: //

Cross
Flame

T: Toxic
F: flammable

2. COMPOSITION / INFORMATION ON INGREDIENTS

Common name : MIXTURE OF SOLVENTS

Chemical name : Acetone, Acetonitrile, Dimethylacetamide, Dimethylformamide, Methanol, Triethylamine

n° CAS :

n° EEC : not classified

n° EINECS :

3. HAZARDS IDENTIFICATION

SKIN CONTACT	: Tightly harmful, may cause irritation.
EYE CONTACT	: May cause tight irritation, redness and swelling of the conjunctivas
INHALATION	: Irritant if inhaled, may cause sensitisation of respiratory tract.
SWALLOWING	: Harmful if ingested.
EFFECTS OF OVEREXPOSURE	: May irritate mucous and higher respiratory passage. May cause allergic reaction in some sensible subject.

4. FIRST AID MEASURES

SKIN CONTACT	: Remove contaminated clothing. Wash skin with soap and water. If irritation persists or if contact has been prolonged, obtain medical attention.
EYE CONTACT	: Flush eyes with water and continue washing for several minutes. Remove contact lenses, if worn. Obtain medical attention.
INHALATION	: Remove to fresh air. Give artificial respiration if not breathing. If breathing is difficult, oxygen may be given by qualified personnel. Obtain medical attention.
SWALLOWING	: If patient is fully conscious, give two glasses of water, induce vomiting. Obtain medical attention.
OTHER INFORMATION	: Wash clothing before reuse.

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5. FIRE – FIGHTING MEASURES

EXTINGUISHING MEDIA

Apply carbon dioxide, dry chemical powder, polymer foam; water may be effective for cooling.

PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Use self-contained breathing apparatus and protective clothing.

HAZARDOUS COMBUSTION PRODUCTS

Carbon monoxide, carbon dioxide, nitrogen oxides, chlorine.

6. ACCIDENTAL RELEASE MEASURES

Steps to be taken if material is released or spilled!

Wear suitable protective equipment. Remove ignition sources, pick up the product in a container and flush with large amounts of water.

7. HANDLING AND STORAGE

HANDLING : Handle with care. Do not breathe vapour, do not swallow. Accidental contact should be washed away immediately. Wash thoroughly after handling.

STORAGE : Keep away from hot and flame. Keep in well-sealed container away from light.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

PERSONAL PROTECTION : Use approved respirator in high concentration, use appropriate rubber gloves and safety glasses

EXPOSURE LIMITS	: TLV /TWA	: not available
	: TLV/STEL	: not available
	: ODOR THRESHOLD	: not available

9. PHYSICAL AND CHEMICAL PROPERTIES

physical state	:	liquid	molecular weight	:	not applicable
Melting point	°C	: not applicable	pH	:	7.5-9.0
Boiling point	°C	: not available	colour	:	Light yellow
Flash point	°C	: not available	odour	:	characteristic
specific gravity (at 20 °C)	g/dm ³	: 0.900 ± 0.5	vapour pressure (at 20 °C) Pa	:	not available
vapour density	:	: not applicable	fat solubility	:	not applicable
solubility in water (at 20 °C)	g/l	: not applicable	viscosity	cps	: not available
solubility in solvents (at 20 °C)	g/l	: not applicable			

heat of combustion	Kj/Kg	:	not available
decomposition point	°C	:	not available
autoignition point	°C	:	not available
flammable limits	less than %	:	not available
	more than %	:	not available

10. STABILITY AND REACTIVITY

STABILITY:	not available
INCOMPATIBILITY:	None currently known.
CONDITIONS TO AVOID:	Open flame, sparks or ignition sources contact with excessive heat.
HAZARDOUS DECOMPOSITION PRODUCTS:	The combustion can produce: carbon monoxide, carbon dioxide, nitrogen oxide, chlorine

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:	DL50 (oral rat)	not available
	LC50 (inhal)	not available
OTHER INFORMATION:		none currently known
CHRONIC TOXICITY:	Carcinogenicity	not available
	Genotoxicity	not available
	Teratogenicity	not available
SENSITIZATION:		not available

12. ECOLOGICAL INFORMATION

MOBILITY:		No information currently available
DEGRADABILITY:	BOD	No information currently available
	COD	No information currently available
ACCUMULATION:	Log P (Oct/H ₂ O)	No information currently available
ECOTOXICITY:	LC 50	No information currently available
	EC 50	No information currently available
OTHER INFORMATION:		No information currently available

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13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD:

This material should be disposed of in accordance with local, state, and/or federal regulations.

14. TRANSPORT INFORMATION

TRANSPORT CLASSIFICATION:

ADR/RID:	cl. 3	n° CUS:	not available
IMO:	cl. 3	n° ONU:	see enclosure list
IATA:	cl. 3	n° NC custom:	//

May be subject to international and/or local transportation requirements.

15. REGULATORY INFORMATION

In accordance with 25° adjustment of 67/548 CEE

RISK PHRASES:

R-11: easily flammable
R 20/21/22 Harmful if inhaled, swallowed and skin contacted.

R-36: eyes irritating
R-61: may be harmful to unborn children

PRUDENCE ADVICES:

S-2 Keep out of reach of children
S-3 Keep in cool place
S-15 Keep away from heat
S-16 : Keep out from flames and sparks. Don't smoking
S-23: Don't inhale gas, fumes, vapours, aerosol
S-24/25: Eliminate any contact with eyes
S-26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S-36-37 Wear suitable and protective clothes

16. OTHER INFORMATION

This information is based on our present state of knowledge and is intended to describe our product from the point of view of the safety requirements.

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