

## SAFETY DATA SHEET

## [1.PRODUCT AND COMPANY IDENTIFICATION]

PRODUCT NAME : AMINON C-11S  
SUPPLIER : Kao Chemical Corporation Shanghai  
ADDRESS : No.1500, Bei Song Road, Minhang District, Shanghai 201111,P.R.China  
DIVISION :  
TELEPHONE NUMBER : 86-21-6409-2880  
FAX NUMBER : 86-21-6409-2881  
E-MAIL ADDRESS :  
EMERGENCY TELEPHONE NUMBER : 86-21-6409-2880  
RECOMMENDED USE :  
AND RESTRICTIONS ON USE :

## [2.HAZARDS IDENTIFICATION]

## GHS CLASSIFICATION

PHYSICAL AND CHEMICAL HAZARDS : Not classified

## HEALTH HAZARDS

ACUTE TOXICITY (Oral) : Not classified  
ACUTE TOXICITY (Dermal) : Not classified  
ACUTE TOXICITY (Inhalation) : Not applicable(Vapours)  
SKIN CORROSION / IRRITATION : Category 1  
SERIOUS EYE DAMAGE / EYE IRRITATION : Category 1  
RESPIRATORY SENSITIZATION : Classification not possible  
SKIN SENSITIZATION : Not classified  
GERM CELL MUTAGENICITY : Classification not possible  
CARCINOGENICITY : Classification not possible  
REPRODUCTIVE TOXICITY : Classification not possible  
SPECIFIC TARGET ORGAN TOXICITY  
- SINGLE EXPOSURE : Classification not possible  
- REPEATED EXPOSURE : Classification not possible  
ASPIRATION HAZARD : Classification not possible

## ENVIRONMENTAL HAZARDS

## HAZARDOUS TO THE AQUATIC ENVIRONMENT

- ACUTE HAZARD : Category 1  
- LONG-TERM HAZARD : Classification not possible  
- HAZARDOUS TO THE OZONE LAYER : Classification not possible

## GHS LABEL ELEMENTS

## PICTOGRAMS OR SYMBOLS :



SIGNAL WORD : Danger

HAZARD STATEMENTS : Causes severe skin burns and eye damage  
Very toxic to aquatic life

## PRECAUTIONARY STATEMENTS

PREVENTION : Do not breathe dust/fume/gas/mist/vapours/spray.  
Avoid release to the environment.  
Wash thoroughly after handling.  
Wear protective gloves/protective clothing/eye protection/face protection.

- RESPONSE : IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
Immediately call a POISON CENTER or doctor.  
Collect spillage.
- STORAGE : Store locked up.
- DISPOSAL : Passed to a licensed waste contractor.
- SAFE HANDLING ADVICE : Refer to SDS.

## [3.COMPOSITION / INFORMATION ON INGREDIENTS]

SUBSTANCE OR MIXTURE : Substance

## INGREDIENTS AND CONCENTRATION RANGE

Ingredients	Concentration Range(%)	CAS RN
Fatty acids, C8-18, methylethanolamide	Confidential	Confidential
Contains glycerine.	5 - 15	

## [4.FIRST-AID MEASURES]

- IN CASE OF INHALATION : Remove to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor.
- IN CASE OF SKIN CONTACT : Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER or doctor.
- IN CASE OF EYE CONTACT : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.
- IN CASE OF INGESTION : Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do NOT induce vomiting.

## [5.FIRE-FIGHTING MEASURES]

- EXTINGUISHING MEDIA : Powder, alcohol-resistant foam, water spray, carbon dioxide,sand
- NOT SUITABLE EXTINGUISHING MEDIA : No information available
- SPECIFIC HAZARDS : Produce irritating or toxic gases in a fire.
- SPECIFIC METHODS : Keep away from sources of ignition and use appropriate extinguishing media.Fight fire from upwind position if possible.  
Do not flow the materials causing adverse effects into the environment with effluent fire extinguishing agents.
- PROTECTION OF FIRE FIGHTERS : Use goggles in combination with dust mask, and other protections as appropriate to situation.  
Risk of producing harmful gases such as carbon monoxide and nitrogen oxides. Avoid inhalation of smoke or gases.

## [6.ACCIDENTAL RELEASE MEASURES]

- PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURE : Use goggles and protective gloves.  
Large spills : Remove person to safety.  
Ensure adequate ventilation.
- ENVIRONMENTAL PRECAUTIONS : Avoid release to the environment.
- METHODS FOR CLEANING UP : Small spills: Absorb spills with sand, inert absorbent, waste cloth or sawdust. Then wipe up remainder in waste cloth.  
Large spills: Dike spills and dispose of in safe area.

PREVENTION OF SECONDARY HAZARDS : Keep away from sources of ignition and prepare extinguishing media.

#### [7.HANDLING AND STORAGE]

##### HANDLING

TECHNICAL MEASURES : Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

PRECAUTIONS : Keep away from source of ignition.  
Avoid contact with eyes and skin.

SAFE HANDLING ADVICE : Use an adequate ventilation.  
Wash thoroughly after handling.  
Use personal protective equipment as required.  
Do not breathe dust/fume/gas/mist/vapours/spray.

##### STORAGE

SUITABLE STORAGE CONDITIONS : Store container tightly closed in well-ventilated place.  
Store locked up.  
Keep away from source of ignition.

SAFE PACKAGING MATERIALS : No information available

#### [8.EXPOSURE CONTROLS / PERSONAL PROTECTION]

ENGINEERING MEASURES : Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.  
Use an adequate ventilation.

##### LIMIT VALUES

ACGIH (TLV) : TWA (10 mg/m<sup>3</sup>), STEL (-)  
(Glycerin mist)

OSHA (PEL) : PEL Total dust 15mg/m<sup>3</sup>, Respirable fraction 5mg/m<sup>3</sup>, (2002 year edition)  
Glycerin (mist)

##### PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY PROTECTION : Use as appropriate to situation.

HAND PROTECTION : Rubber gloves

EYE PROTECTION : Safety goggles or Face shield

SKIN AND BODY PROTECTION : Full-body suit

HYGIENE MEASURES : No information available

#### [9.PHYSICAL AND CHEMICAL PROPERTIES]

##### APPEARANCE

PHYSICAL STATE : Liquid

COLOUR : Colorless to light yellow clear

ODOUR : Slightly characteristic odour

pH : 10 (5%(Water/Methanol=1/1))

##### SPECIFIC TEMPERATURES / TEMPERATURE RANGES AT WHICH CHANGES IN PHYSICAL STATE OCCUR

BOILING POINT : No information available

MELTING POINT : -8.7 °C ( 16.3 °F)

FLASH POINT : 208 °C ( 406.4 °F) (CLEVELAND open cup method)

##### FLAMMABILITY OR EXPLOSIVE PROPERTIES

FLAMMABILITY OR EXPLOSIVE LIMITS : UPPER LIMIT : No information available LOWER LIMIT : No information available

VAPOUR PRESSURE : No information available

VAPOUR DENSITY : No information available

DENSITY (SPECIFIC GRAVITY) : 0.952 g/mL ( 30 °C) ( 86 °F)

0.936 g/mL ( 53 °C) ( 127.4 °F)  
0.926 g/mL ( 70 °C) ( 158 °F)

## SOLUBILITY

WATER SOLUBILITY	: Emulsifiable
SOLVENT SOLUBILITY	: Soluble in various organic solvents.
PARTITION COEFFICIENT: n- OCTANOL / WATER (log Pow)	: No information available
AUTO-IGNITION TEMPERATURE	: No information available
DECOMPOSITION TEMPERATURE	: No information available
ODOUR THRESHOLD	: No information available
EVAPORATION RATE	: No information available
FLAMMABILITY (SOLID,GAS)	: No information available
VISCOSITY	: No information available
OTHER DATA	: No information available

## [10.STABILITY AND REACTIVITY]

CHEMICAL STABILITY	: Stable in general.
POSSIBILITY OF HAZARDOUS REACTIONS	: Reacts with acids.  No self-reactivity.
CONDITIONS TO AVOID	: No information available
INCOMPATIBLE MATERIALS	: No information available
HAZARDOUS DECOMPOSITION PRODUCTS	: Carbon dioxide  Nitrogen oxides
OTHERS	: No information available

## [11.TOXICOLOGICAL INFORMATION]

## ACUTE TOXICITY

## Oral

INFORMATION ON PRODUCT	: Rat, LD50 : > 2000 mg/kg (male, female)(Data on equivalent product)
INFORMATION ON INGREDIENTS	: No information available

## Dermal

INFORMATION ON PRODUCT	: No information available
INFORMATION ON INGREDIENTS	: No information available

## Inhalation

INFORMATION ON PRODUCT	: No information available
INFORMATION ON INGREDIENTS	: No information available

## SKIN CORROSION / IRRITATION

INFORMATION ON PRODUCT	: (Data on equivalent product)
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Guinea pig, 30% in water, 24 hours closed patch test :  
Category 1

Rabbit, active 5% in water, 24 hour closed patch test,  
Intact and abraded skin :  
P.I.I. = 2.09, Moderately irritant

Rabbit, active 5% in water, 14 times repeated application test :  
No reaction

INFORMATION ON INGREDIENTS	: Fatty acids, C8-18, methylethanolamide: Category 1
SERIOUS EYE DAMAGE / IRRITATION	

INFORMATION ON PRODUCT : (Data on equivalent product)

Draize test, active 5% in water :  
Unwashed eyes, MAS = 8.0, Minimally irritating  
Washed eyes, MAS = 7.3, Minimally irritating  
(Kay and Calandra's classification)

INFORMATION ON INGREDIENTS : Fatty acids, C8-18, methylethanolamide: Category 1

#### RESPIRATORY OR SKIN SENSITIZATION

##### RESPIRATORY

INFORMATION ON PRODUCT : No information available

INFORMATION ON INGREDIENTS : No information available

##### SKIN

INFORMATION ON PRODUCT : Guinea pig, Guinea Pig Maximization Test : Negative(Data on equivalent product)

INFORMATION ON INGREDIENTS : No information available

#### MUTAGENICITY (GERM CELL MUTAGENICITY)

INFORMATION ON PRODUCT : (Data on equivalent product)

Ames test (TA98,TA100,TA1535,TA1537, WP2uvrA) : Negative

Chromosomal aberration test (CHL cells) : Negative

INFORMATION ON INGREDIENTS : No information available

#### CARCINOGENICITY

INFORMATION ON PRODUCT : No information available

INFORMATION ON INGREDIENTS : No information available

IARC : Not listed

NTP : Not listed

EU : Not listed

OSHA : Not listed

#### REPRODUCTIVE TOXICITY

INFORMATION ON PRODUCT : No information available

INFORMATION ON INGREDIENTS : No information available

#### SPECIFIC TARGET ORGAN TOXICITY

##### - SINGLE EXPOSURE

INFORMATION ON PRODUCT : No information available

INFORMATION ON INGREDIENTS : No information available

##### - REPEATED EXPOSURE

INFORMATION ON PRODUCT : No information available

INFORMATION ON INGREDIENTS : No information available

#### ASPIRATION HAZARD

INFORMATION ON PRODUCT : No information available

INFORMATION ON INGREDIENTS : No information available

#### OTHER INFORMATION

#### [12.ECOLOGICAL INFORMATION]

ECOTOXICITY : Data on similar product  
Red killifish, 96h, LC50 : 3.3 mg/L  
Daphnia magna, 48h, EC50 : 0.29 mg/L  
Algae, 72h, ErC50 : 1.2 mg/L

ACUTE HAZARD : No information available

LONG-TERM HAZARD : No information available

PERSISTENCE / DEGRADABILITY : This material has good biodegradability.

MOBILITY IN SOIL : No information available  
BIOACCUMULATIVE POTENTIAL : No information available  
OTHER ADVERSE EFFECTS : No information available

#### [13.DISPOSAL CONSIDERATIONS]

Review "HANDLING AND STORAGE (Section 7)".  
Passed to a licensed waste contractor.  
Incinerate with little portions.  
Risk of producing harmful gases such as carbon monoxide and nitrogen oxides.

Dispose of waste in accordance with local,state and federal regulations.

#### [14.TRANSPORT INFORMATION]

Follow all regulations in your country or region

##### INTERNATIONAL REGULATIONS

UN CLASS / UN NUMBER	:	Class 8 / UN1760
IATA	:	UN Number UN1760
		Proper Shipping Name Corrosive Liquid, n.o.s.(containing Fatty acids, C8-18, methylethanolamide)
		Class 8
		Packing Group III
IMDG	:	UN Number UN1760
		Proper Shipping Name Corrosive Liquid, n.o.s.(containing Fatty acids, C8-18, methylethanolamide)
		Class 8
		Packing Group III
		Additional Information Marine pollutant

SPECIAL PRECAUTIONS FOR USER : Review "ACCIDENTAL RELEASE MEASURES (Section 6)".  
Review "HANDLING AND STORAGE (Section 7)".  
Ensure containers without breakage or leakage.  
Ensure containers tightly fixed.  
Follow all regulations in your country or region.  
Keep away from source of ignition.  
Emergency Response Guide(ERG) Numbers : 153

#### [15.REGULATORY INFORMATION]

Follow all regulations in your country or region.

INVENTORIES	:	ENCS(Japan)	Yes
		TSCA(USA)	No
		EINECS(EU)	No
		AICS(Australia)	No
		DSL(Canada)	No
		ECL(Korea)	No
		PICCS(Philippines)	No
		IECSC(China)	Yes

KAO Corporation is not able to check up the regulatory information in regard to the substances in your country or region,therefore,we request this matter would be filled by your responsibility.

#### [16.OTHER INFORMATION]

REFERENCE : -Safety data sheet for chemical products - Part 1: Content and order of sections(ISO 11014-1)  
-International Chemical Safety Cards(ICSC) (Compiler's Guide)(1994)

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