

MATERIAL SAFETY DATA SHEET

[1. PRODUCT AND COMPANY IDENTIFICATION]

PRODUCT NAME : AMINON C-11S
 SUPPLIER : PT. Kao Indonesia Chemicals
 ADDRESS : Jl.Raya Tambun Km.42, Bekasi 17510, West Java, Indonesia
 DIVISION : Marketing Departement
 TELEPHONE NUMBER : +62-21-88326188
 FAX NUMBER : +62-21-88327732
 E-MAIL ADDRESS :
 EMERGENCY TELEPHONE NUMBER : +62-21-88326188 (Ext.1300)
 RECOMMENDED USE :
 AND RESTRICTIONS ON USE :

[2. HAZARDS IDENTIFICATION]

MOST IMPORTANT HAZARDS AND EFFECTS : Corrosive

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 SYSTEMIC TOXICITY
 - SINGLE EXPOSURE : Classification not possible
 - REPEATED EXPOSURE : Classification not possible
 ASPIRATION HAZARD : Classification not possible

ENVIRONMENTAL HAZARDS

HAZARDOUS TO THE AQUATIC ENVIRONMENT

- ACUTE TOXICITY : Category 1
 - CHRONIC TOXICITY : Classification not possible

GHS LABEL ELEMENTS

PICTOGRAMS OR SYMBOLS



SIGNAL WORD

: Danger

HAZARD STATEMENTS

: Causes severe skin burns and eye damage
 Causes serious 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/eye protection/face protection/protective clothing.

RESPONSE	: IF INHALED: Remove to fresh air and keep at rest in a position 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): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTRE or doctor/physician. Collect spillage.
STORAGE	: Store locked up.
DISPOSAL	: Passed to a licensed waste contractor.
SAFE HANDLING ADVICE	: Refer to MSDS.

[3.COMPOSITION / INFORMATION ON INGREDIENTS]

SUBSTANCE OR MIXTURE	: Substance
INGREDIENTS AND CONCENTRATION RANGE	: Fatty acids, C8-18, methylethanolamide
CAS RN	: 371967-96-3

[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 CENTRE or doctor/physician.
IN CASE OF SKIN CONTACT	: Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTRE or doctor/physician.
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 CENTRE or doctor/physician.
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 another protections as appropriate to situation. Risk of producing harmful gases such as carbon monoxide and nitrogen oxides. Avoid inhalation of smoke or gases.

[6.ACIDENTAL 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)

: 10 mg/m³ TWA
Glycerin mist

OSHA (PEL)

: 15 mg/m³ TWA (total); 5 mg/m³ TWA (respirable fraction)
Glycerin

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]

PHYSICAL STATES

FORM

: 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

SPECIFIC GRAVITY (DENSITY)

: 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)
Dermal	
INFORMATION ON PRODUCT	: No information available
Inhalation	
INFORMATION ON PRODUCT	: No information available
SKIN CORROSION / IRRITATION	
INFORMATION ON PRODUCT	: Guinea pig, 30% in water, 24 hours closed patch test :Category 1 Rabbit, 5% in water, 24 hour closed patch test, Intact and abraded skin : P.I.I. = 2.09, Moderate irritant Rabbit, 5% in water, 14 times repeated application test : No reaction
SERIOUS EYE DAMAGE / IRRITATION	
INFORMATION ON 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)
RESPIRATORY OR SKIN SENSITIZATION	
RESPIRATORY	
INFORMATION ON PRODUCT	: No information available
SKIN	
INFORMATION ON PRODUCT	: Guinea pig, Guinea Pig Maximization Test : Negative
MUTAGENICITY (GERM CELL MUTAGENICITY)	

INFORMATION ON PRODUCT	:	Ames test (TA98, TA100, TA1535, TA1537, WP2uvrA) : Negative Chromosomal aberration test (CHL cells) : Negative
CARCINOGENICITY	:	
INFORMATION ON PRODUCT	:	No information available
IARC	:	Not listed
NTP	:	Not listed
EU	:	Not listed
OSHA	:	Not listed
REPRODUCTIVE TOXICITY		
INFORMATION ON PRODUCT	:	No information available
SPECIFIC TARGET ORGAN SYSTEMIC TOXICITY		
- SINGLE EXPOSURE		
INFORMATION ON PRODUCT	:	No information available
- REPEATED EXPOSURE		
INFORMATION ON PRODUCT	:	No information available
ASPIRATION HAZARD		
INFORMATION ON PRODUCT	:	No information available
OTHER INFORMATION	:	No information available

[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
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)
IMDG	:	Class	8
		Packing Group	III
	:	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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