

MATERIAL SAFETY DATA SHEET

[1.PRODUCT AND COMPANY IDENTIFICATION]

PRODUCT NAME : SANISOL C-80
SUPPLIER : Kao Industrial(Thailand)Co.,Ltd.
ADDRESS : 55 Wave Place Bldg.14th & 15th Floor Wireless Road, Pathumwan, Bangkok
 10330, Thailand
DIVISION : Chemicals Division
TELEPHONE NUMBER : 66-2-655-4433
FAX NUMBER : 66-2-655-4333
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EMERGENCY TELEPHONE NUMBER : 66-2-655-4433
RECOMMENDED USE AND RESTRICTIONS ON USE :

[2.HAZARDS IDENTIFICATION]

MOST IMPORTANT HAZARDS AND EFFECTS : Corrosive
GHS CLASSIFICATION
PHYSICAL AND CHEMICAL HAZARDS
FLAMMABLE LIQUIDS : Category 3
CORROSIVE TO METALS : Category 1
HEALTH HAZARDS
ACUTE TOXICITY (Oral) : Category 4
ACUTE TOXICITY (Dermal) : Category 4
ACUTE TOXICITY (Inhalation) : Not classified(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 : Not classified
CARCINOGENICITY : Classification not possible
REPRODUCTIVE TOXICITY : Category 2
SPECIFIC TARGET ORGAN TOXICITY
 - SINGLE EXPOSURE : Category 2(central nerves system, kidney, systemic toxicity)
 - REPEATED EXPOSURE : Classification not possible
ASPIRATION HAZARD : Classification not possible
ENVIRONMENTAL HAZARDS
HAZARDOUS TO THE AQUATIC ENVIRONMENT
 - ACUTE TOXICITY : Category 1
 - CHRONIC TOXICITY : Not classified

GHS LABEL ELEMENTS

PICTOGRAMS OR SYMBOLS :



SIGNAL WORD : Danger
HAZARD STATEMENTS : Flammable liquid and vapour
 May be corrosive to metals
 Harmful if swallowed
 Harmful in contact with skin
 Causes severe skin burns and eye damage

Causes serious eye damage
 Suspected of damaging fertility or the unborn child
 May causes damage to organs (central nerves system, kidney, systemic toxicity)
 Very toxic to aquatic life

PRECAUTIONARY STATEMENTS**PREVENTION**

: Obtain special instructions before use.
 Do not handle until all safety precautions have been read and understood.
 Keep away from ignition sources such as heat/sparks/open flame. - No smoking.
 Keep container tightly closed.
 Keep only in original container.
 Take precautionary measures against static discharge. Use explosion-proof electrical/ventilating/lighting. Use only non-sparking tools.
 Do not breathe dust/fume/gas/mist/vapours/spray.
 Avoid release to the environment.
 Do not eat, drink or smoke when using this product.
 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: Call a POISON CENTER or doctor/physician if you feel unwell. 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. Gently wash with plenty of soap and water.
 Immediately call a POISON CENTRE or doctor/physician.
 In case of fire, keep away from sources of ignition and use appropriate extinguishing media.
 Absorb spillage to prevent material damage.
 Collect spillage.

STORAGE

: Store in corrosive resistant/container with a resistant inliner.
 Store container tightly closed in well-ventilated place.
 Store locked up.

DISPOSAL

: Passed to a licensed waste contractor.

SAFE HANDLING ADVICE

:

[3.COMPOSITION / INFORMATION ON INGREDIENTS]

SUBSTANCE OR MIXTURE : Mixture

INGREDIENTS AND CONCENTRATION RANGE

Ingredients	Concentration Range(%)	CAS RN
Quaternary ammonium compounds, benzyl-C8-18-alkyldimethyl, chlorides	80 - 90	Yes
Isopropyl alcohol	Confidential	67-63-0
Water	Confidential	7732-18-5

[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.
Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. Gently wash with plenty of soap and water.
- 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.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.
Do not eat, drink or smoke when using this product.
- STORAGE
- SUITABLE STORAGE CONDITIONS : Store container tightly closed in well-ventilated place.
Store in corrosive resistant/container with a resistant inliner.
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 local exhaust ventilation.
LIMIT VALUES	
ACGIH (TLV)	: 200ppm TWA, 400ppm STEL 2-Propanol
OSHA (PEL)	: 400 ppm TWA; 980 mg/m ³ TWA Isopropyl alcohol
PERSONAL PROTECTIVE EQUIPMENT	
RESPIRATORY PROTECTION	: Use chemical cartridge respirator for alkalines, as appropriate to situation.
HAND PROTECTION	: Gloves (alkali-resistant)
EYE PROTECTION	: Safety goggles or Face shield
SKIN AND BODY PROTECTION	: Alkali-resistant protective clothing
HYGIENE MEASURES	: No information available

[9.PHYSICAL AND CHEMICAL PROPERTIES]

PHYSICAL STATES	
FORM	: Liquid
COLOUR	: Light yellow
ODOUR	: Slightly characteristic odour
pH	: 7 - 9 (3% solution)
SPECIFIC TEMPERATURES / TEMPERATURE RANGES AT WHICH CHANGES IN PHYSICAL STATE OCCUR	
BOILING POINT	: No information available
MELTING POINT	: No information available
FLASH POINT	: 53 °C (127.4 °F) (TAG closed 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)	: 0.958 g/mL (25 °C) (77 °F)
SOLUBILITY	
WATER SOLUBILITY	: Soluble
SOLVENT SOLUBILITY	: Soluble in ethyl alcohol Soluble in isopropyl alcohol
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.
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POSSIBILITY OF HAZARDOUS REACTIONS : No self-reactivity.

CONDITIONS TO AVOID : No information available

INCOMPATIBLE MATERIALS : No information available

HAZARDOUS DECOMPOSITION PRODUCTS : No information available

OTHERS : No information available

[11.TOXICOLOGICAL INFORMATION]

ACUTE TOXICITY

Oral

INFORMATION ON PRODUCT : No information available

INFORMATION ON INGREDIENTS : Quaternary ammonium compounds, benzyl-C8-18-alkyldimethyl, chlorides: Category 4; Ref.(6)

Dermal

INFORMATION ON PRODUCT : No information available

INFORMATION ON INGREDIENTS : Quaternary ammonium compounds, benzyl-C8-18-alkyldimethyl, chlorides: Category 4; Ref.(6)

Inhalation

INFORMATION ON PRODUCT : No information available

INFORMATION ON INGREDIENTS : No information available

SKIN CORROSION / IRRITATION

INFORMATION ON PRODUCT : No information available

INFORMATION ON INGREDIENTS : Quaternary ammonium compounds, benzyl-C8-18-alkyldimethyl, chlorides: Category 1; Ref.(6)

SERIOUS EYE DAMAGE / IRRITATION

INFORMATION ON PRODUCT : No information available

INFORMATION ON INGREDIENTS : Quaternary ammonium compounds, benzyl-C8-18-alkyldimethyl, chlorides: Category 1; Ref.(6)
Isopropyl alcohol: Category 2A; Ref.(1)

RESPIRATORY OR SKIN SENSITIZATION

RESPIRATORY

INFORMATION ON PRODUCT : No information available

INFORMATION ON INGREDIENTS : No information available

SKIN

INFORMATION ON PRODUCT : No information available

INFORMATION ON INGREDIENTS : No information available

MUTAGENICITY (GERM CELL MUTAGENICITY)

INFORMATION ON PRODUCT : No information available

INFORMATION ON INGREDIENTS : No information available

CARCINOGENICITY

INFORMATION ON PRODUCT : No information available

INFORMATION ON INGREDIENTS : No information available

IARC : Group 3 : Not classifiable as to its carcinogenicity to humans.
Isopropanol

NTP : Not listed

EU : Not listed

OSHA : Not listed

REPRODUCTIVE TOXICITY

INFORMATION ON PRODUCT : No information available

INFORMATION ON INGREDIENTS : Isopropyl alcohol: Category 2; Ref.(1)
 SPECIFIC TARGET ORGAN TOXICITY
 - SINGLE EXPOSURE
 INFORMATION ON PRODUCT : No information available
 INFORMATION ON INGREDIENTS : Isopropyl alcohol: Category 1 (central nerves system, kidney, systemic toxicity); Ref.(1)
 - 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 : No information available

[12.ECOLOGICAL INFORMATION]

ECOTOXICITY : No information available
 PERSISTENCE / DEGRADABILITY : No information available
 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 / UN2920	
IATA	:	UN Number	UN2920
		Proper Shipping Name	Corrosive Liquid, Flammable,n.o.s.(containing Quaternary Ammonium Chloride,Isopropyl alcohol)
		Class (Sub. risk)	8 (3)
		Packing Group	II
IMDG	:	UN Number	UN2920
		Proper Shipping Name	Corrosive Liquid, Flammable,n.o.s.(containing Quaternary Ammonium Chloride,Isopropyl alcohol)
		Class (Sub. risk)	8 (3)
		Packing Group	II
		Additional Information	Not applicable

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)	Yes
		EINECS(EU)	Yes
		AICS(Australia)	Yes
		DSL(Canada)	Yes
		ECL(Korea)	Yes
		PICCS(Philippines)	Yes
		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)
		(1)GHS Classification Database, National Institute of Technology and Evaluation (NITE)
		(6)EU Directive Annex I

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