

# Safety Data Sheet

1. Identification of the substance/mixture and of the company/undertaking
Product identifier:
Product name: Phenol
Reference number(SDS):63012jis_E−1
Product type:
Quasi-drug raw materials
☆This product conform to JSQI (Japanese Standards of Quasi-drug Ingredients).
Relevant identified uses of the substance or mixture and uses advised against
Relevant identified uses of the product: Antimicrobial, Denaturant, Deodorant, Fragrance, Oral care,
Preservative
Uses advised against: Do not use for other purposes.
Details of the supplier of the safety data sheet
Manufacturer/Supplier: JUNSEI CHEMICAL CO., LTD.
Address: 1–6, Ohmano-cho, Koshigaya-shi, Saitama 343-0844, Japan
Division: Quality Assurance Department
Telephone number: +81-48-986-6161
FAX: +81-48-989-2787
e-mail address: shiyaku-t@junsei.co.jp

2. Hazards identification

GHS classification and label elements of the product Classification of the substance or mixture HEALTH HAZARDS Acute toxicity (Oral): Category 4 Acute toxicity (Dermal): Category 3 Skin corrosion/irritation: Category 1A Serious eye damage/eye irritation: Category 1 Germ cell mutagenicity: Category 1B Reproductive toxicity: Category 1B Specific target organ toxicity - single exposure: Category 1(respiratory system, cardiovascular system, kidney, nervous system) Specific target organ toxicity - repeated exposure: Category 1(cardiovascular system, liver, gastrointestinal tract, blood system, kidney, spleen, thymus, central nervous system)

#### ENVIRONMENT HAZARDS

Hazardous to the aquatic environment (Acute): Category 2 Hazardous to the aquatic environment (Long-term): Category 3 (Note) GHS classification without description: Not classified/Classification not possible Label elements



Signal word: Danger HAZARD STATEMENT

H302–Harmful if swallowed

H311-Toxic in contact with skin

H314-Causes severe skin burns and eye damage



H318-Causes serious eye damage H340-May cause genetic defects H360-May damage fertility or the unborn child H370-Causes damage to organs H372-Causes damage to organs through prolonged or repeated exposure H401-Toxic to aquatic life H412-Harmful to aquatic life with long lasting effects PRECAUTIONARY STATEMENT Prevention Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid release to the environment. Do not breathe dust/fume/gas/mist/vapors/spray. Wash contaminated parts thoroughly after handling. Wear protective gloves or protective clothing. Wear eye protection/face protection. Use personal protective equipment as required. Do not eat, drink or smoke when using this product. Response Get medical advice/attention if you feel unwell. IF exposed or concerned: Get medical advice/attention. Immediately call a POISON CENTER/doctor/physician. Call a POISON CENTER/doctor/physician if you feel unwell. IF exposed or concerned: Call a POISON CENTER/doctor/physician. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF ON SKIN: Wash with plenty of soap and water. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Take off immediately all contaminated clothing and wash it before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF SWALLOWED: Call a POISON CENTER/doctor/physician if you feel unwell. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Storage Store locked up.

Disposal

Dispose of contents/container in accordance with local/national regulation.

3. Composition/information on ingredients

Mixture/Substance selection: Substance Ingredient name:Phenol Content (%):98.5 < Chemical formula:C6H6O Chemicals No, Japan:3-481 CAS No.:108-95-2 MW:94.11 ECNO:203-632-7

4. First-aid measures

Descriptions of first-aid measures

General measures

Get medical advice/attention if you feel unwell.



Immediately call a POISON CENTER/doctor/physician.

Keep victim warm and quiet.

Call emergency medical service.

Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give

artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

Effects of exposure (inhalation, ingestion or skin contact) to substance may be delayed.

# IF INHALED

Remove person to fresh air and keep comfortable for breathing.

Give artificial respiration if victim is not breathing.

Administer oxygen if breathing is difficult.

Call a POISON CENTER/doctor/physician if you feel unwell.

## IF ON SKIN (or hair)

Take off immediately all contaminated clothing. Rinse skin with water or shower.

Wash with plenty of soap and water.

If skin irritation or rash occurs: Get medical advice/attention.

## IF IN EYES

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

## IF SWALLOWED

Rinse mouth. If victim is conscious, give 1 - 2 glasses of water.

Do NOT induce vomiting.

Call a POISON CENTER/doctor/physician if you feel unwell.

Most important symptoms and effects, both acute and delayed

## (Symptoms when inhalation or ingestion)

Sore throat. Burning sensation. Cough. Dizziness. Headache. Shortness of breath. Laboured breathing. Unconsciousness. Burns in mouth and throat. Convulsions. Abdominal pain. Diarrhoea. Shock or collapse.

# (Symptoms when skin and/or eye contact)

Conjunctival redness of the eyes. Pain of the eyes. Loss of vision. Severe burns. Numbness of the skin. Convulsions. Collapse. Unconsciousness

%May be absorbed into the skin.

# 5. Fire-fighting measures

Extingui	ishing	media
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Suitable extinguishing media

In case of fire, use water mist, alcohol-resistant foam, dry powder, CO2 to extinguish.

Unsuitable extinguishing media

Unsuitable extinguishing media data is not available.

Specific hazards arising from the substance or mixture

Containers may explode when heated.

Fire may produce irritating, corrosive and/or toxic gases.

Runoff from fire control or dilution water may cause pollution.

# Advice for firefighters

Specific fire-fighting measures

Evacuate non-essential personnel to safe area.

Cool container with water spray.

Special protective equipment and precautions for fire-fighters

Wear fire resistant or flame retardant clothing.

Wear protective gloves/protective clothing/eye protection/face protection.

Firefighters should wear self-contained breathing apparatus with full face peace operated positive pressure mode.



6. Accidental release measures

	Personnel precautions, protective equipment and emergency procedures				
	Keep unauthorized personnel away.				
	Ventilate area until material pick up is complete.				
	Wear proper protective equipment.				
	PUBLIC SAFTY: Ventilate closed spaces before entering.				
	EVACUATION : Spill: See the Table of Initial Isolation and Protective Action Distances for				
	highlighted substances. For non-highlighted substances, increase, in the downwind				
	direction, as necessary, the isolation distance shown under "PUBLIC SAFETY".				
	nvironmental precautions				
	Avoid release to headsprings, rivers, lakes, ocean and groundwater.				
	Fire or Explosion : Runoff may pollute waterways.				
Methods and materials for containment and cleaning up					
	Absorb spill with inert material (dry sand, earth, et al), then place in a chemical waste container.				
Preventive measures for secondary accident					
	Collect spillage.				
	Stop leak if you can do it without risk.				
	ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).				
	Prevent entry into waterways, sewers, basements or confined areas.				
	Keep out of low areas.				
7.	. Handling and storage				
	Precautions for safe handling				
Preventive measures					
(Exposure Control for handling personnel) Do not breathe dust/fume/gas/mist/vapors/spray.					

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

# (Exhaust/ventilator)

Exhaust/ventilator should be available.

(Safety treatments)

Avoid contact with skin.

Avoid contact with eyes.

# Safety Measures

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Wear protective gloves/protective clothing/eye protection/face protection.

Use personal protective equipment as required.

When using do not eat, drink or smoke.

#### Any incompatibilities

Strong bases, Oxidizing agents should not be mixed with the chemicals.

Advice on general occupational hygiene

Wash contaminated parts thoroughly after handling.

Do not eat, drink or smoke when using this product.

Take off immediately all contaminated clothing and wash it before reuse.

# Storage

Conditions for safe storage

Store in a well-ventilated place. Keep container tightly closed.

Keep cool. Protect from sunlight.

Store in accordance with local/national regulation.

Store locked up.

Container and packaging materials for safe handling data is not available.



Specific end use(s)

See information in Section 7.1 and 7.2 for handling and storage recommendations. See Section 8 for exposure controls and personal protection recommendations.

. Exposure controls/personal protection
Control parameters
Control value in MHLW is not available.
Adopted value
JSOH(1978) 5ppm; 19mg/m3 (dermal)
ACGIH(1996) TWA: 5ppm (URT irr; lung dam; CNS impair)
Notation···Skin
Exposure controls
Appropriate engineering controls
Do not use in areas without adequate ventilation.
Eye wash station should be available.
Washing facilities should be available.
Individual protection measures
Respiratory protection
Wear respiratory protection.
Wear positive pressure self-contained breathing apparatus (SCBA).
Hand protection
Wear protective gloves. Recommended material(s): butyl rubber, viton
Consult with your glove and/or personnel equipment manufacturer for selection of
appropriate compatible materials.
Eye protection
Wear chemical safety goggle.
Wear eye/face protection.
Skin and body protection
Wear impervious clothing and boots in case of repeated or prolonged treatment.
. Physical and Chemical Properties
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Solubility in solvent: Soluble in ethanol, diethyl ether. n-Octanol/water partition coefficient: log Pow1.46 Vapor pressure: 47 Pa (20°C) Vapor density data is not available. Density and/or relative density: 1.06 Relative vapor density (Air=1): 3.2 Relative density of the Vapor/air - mixture at 20°C (Air = 1): 1.0 Particle characteristics data is not available. Other information Critical temperature data is not available. Evaporation rate data is not available. VOC data is not available.

#### 10. Stability and Reactivity

#### Reactivity

Runaway polymerization will not occur. Chemical stability Stable under normal storage/handling conditions. Hygroscopic. Prone to redden on exposure to air. Possibility of hazardous reactions The solution in water is a weak acid. Reacts with oxidants. This generates fire and explosion hazard. Conditions to avoid Contact with incompatible materials. Open flames. Heat. Air. Light. Incompatible materials Strong bases, Oxidizing agents Hazardous decomposition products Carbon oxides

11. Toxicological Information Information on toxicological effects Acute toxicity Acute toxicity (Oral) [GHS Cat. Japan, base data] rat LD50=375mg/kg (calc) Acute toxicity (Dermal) [GHS Cat. Japan, base data] rat LD50=670mg/kg (EHC 161, 1994) Labor standard law, Japan; Toxic Phenol Irritant properties Skin corrosion/irritation [GHS Cat. Japan, base data] rabbit/human : corrosive (EHC 161, 1994) Serious eye damage/irritation [GHS Cat. Japan, base data] rabbit : irreversible effects (EHC 161, 1994) Allergenic and sensitizing effects data is not available.



Germ cell mutagenicity [GHS Cat. Japan, base data] cat. 1B; CERI/NITE risk assessment No.32, 2005 Carcinogenicity [IARC] Group 3 : Not classifiable as to its carcinogenicity to humans [ACGIH] A4(1996) : Not Classifiable as a Human Carcinogen [EPA] I; Data are inadequate for an assessment of human carcinogenic potential(1999) Reproductive toxicity [GHS Cat. Japan, base data] cat. 1B; CERI/NITE risk assessment No.32, 2005 Teratogenic effects data is not available. STOT STOT-single exposure [cat.1] [GHS Cat. Japan, base data] respiratory system; cardiovascular system; kidney; nervous system (CERI/NITE risk assessment, 2005) STOT-repeated exposure [cat.1] [GHS Cat. Japan, base data] cardiovascular system; liver; digestive system; blood system; kidney; spleen; thymus; central nervous system (CERI/NITE risk assessment, 2005) Aspiration hazard data is not available. 12 Ecological Information

Ecotoxicity	
Aquatic toxicity	
H401-Toxic to aquatic life	
H412-Harmful to aquatic life with long lasting effects	
Hazardous to the aquatic environment (Acute)	
[GHS Cat. Japan, base data]	
Crustacea (Ceriodaphnia reticulata) LC50=7.83mg/L/48hr (geometric mean value of more than 4reports)	
Hazardous to the aquatic environment (Long-term)	
[GHS Cat. Japan, base data]	
Fish (Pimephales promelas) NOEC=0.75mg/L/30days (NITE Initial Risk Assessment Report, 2007)	
Water solubility	
82.8 g/L (25°C) (PHYSPROP Database; HSDB)	
Persistence and degradability	
Degrade rapidly [BOD_Degradation : 85%/2 weeks; TOC_Degradation : 95%/2 weeks (METI exist	ing
chemical safety inspections, 1979)]	
Bioaccumulative potential	
log Pow=1.46 (ICSC, 2017)	
Mobility in soil	
Mobility in soil data is not available.	
Other adverse effects	
Ozone depleting chemical data is not available.	



# 13. Disposal considerations Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging Waste treatment methods Avoid release to the environment. Dispose of contents/container in accordance with local/national regulation. 14. Transport Information UN No., UN CLASS UN No. or ID No.: 1671 UN Proper Shipping Name : PHENOL, SOLID Class or division (Transport hazard class) : 6.1 Packing group : II ERG GUIDE No.: 153 IMDG Code (International Maritime Dangerous Goods Regulations) UN No.: 1671 Proper Shipping Name : PHENOL, SOLID Class or division : 6.1 Packing group : II IATA Dangerous Goods Regulations UN No.: 1671 Proper Shipping Name : PHENOL, SOLID Class or division : 6.1 Hazard labels : Toxic Packing group : II Environmental hazards MARPOL Annex III - Prevention of pollution by harmful substances Marine pollutants (yes/no) : no MARPOL Annex V – Prevention of pollution by garbage discharge Germ cell mutagenicity: cat.1, 1A, 1B Phenol Reproductive toxicity: cat.1, 1A, 1B Phenol Specific target organ toxicity - repeated exposure: cat.1 Phenol Maritime transport in bulk according to IMO instruments Noxious Liquid ; Cat. Y Phenol(Y-361)

15. Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture Chemicals listed in TSCA Inventory

Phenol

Other regulatory information

We are not able to check up the regulatory information with regard to the substances in your country or region, therefore, we request this matter would be filled by your responsibility. Regulatory information with regard to this substance in your country or in your region should be examined by your own responsibility.

Ensure this material in compliance with federal requirements and ensure conformity to local regulations. Regulatory information in this section are limited to intentional ingredient(s), but does

not contain information on non-intentional ingredients or impurities which are not informed by supplier(s).



Chemical safety assessment

Advice on safe handling for this product can be found in sections 7 and 8 of this SDS.

16. Other information GHS classification and labelling H302-Acute Tox. 4: H302 Harmful if swallowed H311-Acute Tox. 3: H311 Toxic in contact with skin H314-Skin Corr. 1A: H314 Causes severe skin burns and eye damage H318-Eye Dam. 1: H318 Causes serious eye damage H340-Muta. 1B: H340 May cause genetic defects H360-Repr. 1B: H360 May damage fertility or the unborn child H370-STOT SE 1: H370 Causes damage to organs H372-STOT RE 1: H372 Causes damage to organs through prolonged or repeated exposure H401-Aquatic Acute 2: H401 Toxic to aquatic life H412-Aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects Reference Book Globally Harmonized System of classification and labelling of chemicals, UN Recommendations on the TRANSPORT OF DANGEROUS GOODS 21th edit., 2019 UN IMDG Code, 2018 Edition (Incorporating Amendment 39-18) IATA Dangerous Goods Regulations (62nd Edition) 2021 2020 EMERGENCY RESPONSE GUIDEBOOK (US DOT) 2021 TLVs and BEIs. (ACGIH) JIS Z 7252 : 2019 JIS Z 7253 : 2019 2021 Recommendation on TLVs (JSOH) Supplier's data/information Chemicals safety data management system "GHS Assistant" Version 4.17 (https://www.asahi-ghs.com/) NITE Chemical Risk Information Platform "NITE-CHRIP" (https://www.nite.go.jp/en/chem/chrip/chrip\_search/systemTop)



GHS Classification Guidance for Enterprises 2019 Revised Edition (Ver. 2.0) (Mar. 2020, METI)

Definitions and Abbreviations

SDS (Safety Data Sheet) LD50 (Lethal Dose, 50%) LC50 (Lethal Concentration, 50%) IARC (International Agency for Research on Cancer) ACGIH (American Conference of Governmental Industrial Hygienists) EPA (US Environmental Protection Agency) NTP (US National Toxicology Program) JSOH (Japan Society for Occupational Health) EU (European Union) EC50 (Effective Concentration, 50%) NOEC (No Observed Effect Concentration) BOD (Biochemical Oxygen Demand) COD (Chemical Oxygen Demand) BCF (Bioconcentration Factor) anh (anhydride)

## General Disclaimer

This data sheet was created based on the information we currently have and may be revised according to new information. In addition, the precautions apply only to normal handling, and in the case of special handling, please make adequate countermeasure to maintain your safety.

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products' properties.

The GHS classification data given here is based on current Japan official data (NITE published in 2020).