Safety Data Sheet

1. Product and company identification

Product name	:	Abietic acid
Name of manufacturer	:	KANTO CHEMICAL CO., INC.
Address	:	2-1, Nihonbashi, Muromachi 2-Chome, Chuo-Ku, Tokyo, 103-0022, Japan
Name of section	:	Reagent division, catalog and products information section
Telephone number	:	+81-3-6214-1090
Facsimile number	:	+81-3-3241-1047
Mail address	:	BC32@gms.kanto.co.jp
SDS No.	:	01000

2. Summary of danger and Hazard

GHS classification

Physical and chemical hazard

Flammable solids	:	Out of category
Pyrophoric solids	:	Out of category

Human health hazard

Skin corrosion・Irritation	:	Out of category
Serious eye damage・Eye irritation	:	Category 2B

Environmental hazard

Hazardous to the aquatic environment-acute hazard	:	Category 2
Hazardous to the aquatic environment-chronic hazard	:	Category 2

Pictogram or symbol

Signal word	:	Warning
Hazard statement	:	Causes eye irritation Toxic to aquatic life Toxic to aquatic life with long lasting effects

Cautions

Safety measurements	:	Avoid release to the environment.
First-aid measures	:	If in eyes : Rinse cautiously with water for several minutes. Get medical treatment. Wash hands thoroughly after handling. Collect leakage
Disposal	:	Dispose of contents and containers appropriately in accordance with related regulations.

3. Composition/Information on ingredients

Substance/Mixture : Substance

Chemical name or commercial name
: Abietic acid

Ingredients and composition
: Abietic acid min. 80.0%

Chemical formula : C20H30O2

CAS No. : 514-10-3

TSCA Inventory : Registered

EINECS No. : 2081783

Dangerous and hazardous ingredients
: Abietic acid

4. First aid measures

Inhalation : Remove the victim to fresh air, and make him blow his nose and gargle.

Skin contact : Wash the affected areas under running water.

Eye contact : Wash the affected areas under running water for at least 15 minutes. If necessary, get medical treatment.

Ingestion : Give the victim water or salt water and induce vomiting. If necessary, get medical attention.

5. Fire fighting measures

Extinguishing media : Water, dry chemical powder, carbon dioxide, dry sand, foam

Prohibited extinguishing media
: None

Particular fire fighting : Move containers from fire area if it can be done without risk, if not possible, apply water from a safe distance to cool and protect surrounding area.

Protection for firefighters
: Firefighters should wear protective equipment.

6. Accidental release measures

Cautions for personnel : Wear proper equipment and avoid contact with skin and inhalation of dust. Keep away personnel except for authorized ones from spillage area by stretching ropes.

Cautions for environment : Attention should be given not to cause damage to the environment by flowing of spillage to rivers. In case of the dilution of copious water, do not cause damage to the environment by untreated wastewater.

Removal measure : Sweep up in a chemical waste container. Flush residual area with copious amounts of water.

7. Cautions of handling and storage

Handling

Engineering measures : If necessary, wear proper protective equipment not to contact with skin or inhale the dust.

Cautions for safety handling
: Handle the chemical not to generate aerosol or dust.

Storage

Adequate storage condition
: Store in a dark, cool place and tightly closed.
Safety adequate container materials
: Glass, polyethylene, polypropylene

8. Exposure control/Personal protection

Engineering measures : Use only with adequate ventilation and in closed systems.
Control parameters
ACGIH(2009) : Not established
Protective equipment
Respiration protective equipment
: If necessary, wear dust mask
Hands protective equipment
: Impervious protective gloves
Eyes protective equipment
: Safety goggles

9. Physical and chemical properties

Appearance	:	Crystalline powder
Color	:	Light yellow
Odor	:	Slight characteristic odor
Melting point	:	174℃～175℃
Flash point	:	Not available
Auto-ignition point	:	more than 650℃
Specific gravity	:	Not available
Solubility		
Solubility in solvents	:	Water ; 48.4mg/water 1L,20℃ Organic solvents ; Soluble in ethanol, benzene, insoluble in diethyl ether.

10. Stability and reactivity

Stability	:	Decomposes on heat.
Reactivity	:	May react with oxidizing substances.
Incompatible conditions	:	Light, heat
Incompatible materials	:	Oxidizing substances
Hazardous decomposition products		
	:	Carbon monoxide

11. Toxicological information

Acute toxicity	:	Oral : Not possible to classify because of insufficient data. Dermal : Not possible to classify because of insufficient data. Inhalation(vapor) : Not possible to classify because of insufficient data. Inhalation(dust, mist) : Not possible to classify because of insufficient data.
Skin corrosiveness	:	Out of category

Since causes slight irritation to the skin, it was set into out of category.

Irritation to skin, eyes : Causes eye irritation(category 2B)

Since causes irritation to the eyes, it was classified into category 2B.

Respiratory sensitization or Skin sensitization

: Respiratory sensitization : Not possible to classify because of insufficient data.

Skin sensitization : Not possible to classify because of insufficient data.

Mutagenicity : Not possible to classify because of insufficient data.

Carcinogenic effects : Not possible to classify because of insufficient data

Effects on the reproductive system

: Not possible to classify because of insufficient data.

Specific target organ systemic toxicity single exposure

: Not possible to classify because of insufficient data.

Specific target organ systemic toxicity repeated exposure

: Not possible to classify because of insufficient data.

Aspiration hazard : Not possible to classify because of insufficient data.

12. Ecological information

Ecotoxicity

Fish toxicity : Toxic to aquatic life(category 2)

Toxic to aquatic life with long lasting effects(category 2)

Oryzias lapipes LD50>1000mg/L/96H

Rediualbility and degradability

: Not available

Ecorediualbility : Not available

Mobility : Not available

13. Disposal consideration

Residual disposal : Mixed with flammable organic solvents and burn in a chemical incinerator equipped with an afterburner and a scrubber. Or entrust approved waste disposal companies with the disposal.

Containers : In case of disposal of empty bottles, dispose bottles after removing the content thoroughly.

14. Transport information

UN class : Class 9(Miscellaneous dangerous substances) P. G. Ⅲ

UN number : 3077

Marine regulation information

UN No. : 3077

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

Class : 9

Sub risk : -

Packing group : Ⅲ

Marine pollutant : P

Aviation regulation information

UN No.	:	3077
Proper shipping name	:	Environmentally hazardous substance, solid, n.o.s.
Class	:	9
Sub risk	:	-
Packing group	:	Ⅲ

15. Regulatory information

Ensure this material in compliance with federal requirements and ensure conformity to local regulations.

16. Other information

References: Dictionary of Organic Compounds, The society of Synthetic Organic Chemistry, Kodansha Ltd.(1985)

The information contained herein is based on several references and the present state of our knowledge. However the SDS does not always cover all information about the product, handle the product carefully.The information is intended to ordinary usage, in case of particular handlings, conduct appropriate safety measurements.The information herein is only provision of information, and it does not represent a guarantee the properties of the product.The Safety Data Sheet(SDS) is prepared based on JIS Z7253, and it has the same required elements on the Material Safety Data Sheet(MSDS) which is prepared based on JIS Z7250:2010.