



MATERIAL SAFETY DATA SHEET

MSDS Code: SY/S- 0110 Version A

SECTION 1.

IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Trade name: Shandong Dadu

Product Type: Chemical intermediate.

Company: SHANDONG DADU ENERGY TECHNOLOGY CO., LTD
SUNSHINE XINTIANDI BUILDING,NO.111,JINGGANGROAD,HUANGDAO DISTRICT
QINGDAO CITYSHANDONG PROVINCE

Telephone:

SECTION 2.

HAZARDS IDENTIFICATION

Emergency Overview

Human health hazards: May be irritating to the eyes, respiratory system and skin. May be harmful if swallowed.

Safety hazards: Material will not burn unless preheated.

SECTION 3.

COMPOSITION/INFORMATION ON INGREDIENTS

Product Group: Koch acid.

Chemical Name	CAS-No.	Weight %
Neo decanoic acid	26896-20-8	100 %



MATERIAL SAFETY DATA SHEET

SECTION 4.

FIRST AID MEASURES

Inhalation: Remove to fresh air.

Skin contact : Wash skin with water using soap if available.

Eye contact: Flush eye with water. If rapid recovery does not occur, obtain medical attention.

Ingestion: Do not induce vomiting. Give nothing by mouth. If rapid recovery does not occur, obtain medical attention.

Notes to physician

Symptoms: Skin contact may cause slight irritation Eye contact may cause slight irritation

Treatment: Treat symptomatically.

SECTION 5.

FIRE-FIGHTING MEASURES

Unsuitable extinguishing media: Water in a jet.

Suitable extinguishing media: Use water fog, foam, dry chemical or carbon dioxide.

Specific hazards during fire fighting: Material will not burn unless preheated. Evacuate the area of all non-essential personnel. Cool fire exposed containers with water. Container areas exposed to direct flame contact should be cooled with large quantities of water as needed to prevent weakening of container structure.

Special protective equipment for fire-fighters: Do not enter confined fire space without full bunker gear (helmet with face shield, bunker coats, gloves and rubber boots) including a positive pressure self-contained breathing apparatus.



MATERIAL SAFETY DATA SHEET

SECTION 6.

ACCIDENTAL RELEASE MEASURES

Personal precautions: May burn although not readily ignitable. Avoid contact with skin, eyes, clothing. Do not breathe fumes.

Environmental precautions: Dike and contain. Contain run-off and dispose of properly. Remove contaminated soil to remove contaminated trace residues. Prevent from entering into drains, ditches or rivers.

Clean-up methods - small spillage : Absorb or contain liquid with sand, earth or spill control material. Shovel up and place in a labelled, sealable container for subsequent safe disposal. Scrub contaminated surfaces with detergent solution Retain washings as contaminated waste. Put leaking containers in a labelled drum or overdrum.

Clean-up methods - large spillage: Transfer to a labelled, sealable container for product recovery or safe disposal.

Treat residues as for small spillage.

Additional advice: Notify authorities if any exposures to the general public or environment occurs or is likely to occur.

See Section 13 for information on disposal.

SECTION 7.

HANDLING AND STORAGE

Handling

Advice on safe handling: Avoid contact with skin, eyes and clothing. Do not breathe fumes or vapours from heated product

Storage

Requirements for storage areas and containers: Keep container tightly closed and in a cool, well-ventilated place.



MATERIAL SAFETY DATA SHEET

SECTION 8.

EXPOSURE CONTROLS / PERSONAL PROTECTION

Protective measures: If risk of inhalation of aerosols/mists/spray wear full face-piece respirator with organic vapour canister and built-in particulate filter NPF 400 (gas only), PVC one-piece suit with integral hood, PVC gloves, gauntlet type, safety boots - rubber, knee length
In a confined space, wear self-contained breathing apparatus open circuit type NPF 2000

Engineering measures: Use local exhaust ventilation.

Eye protection: Monogoggles

Hand protection: PVC gloves

Skin and body protection: Standard issue work clothes. Safety shoes or boots - chemical resistant. In the event of risk from splashes during handling, wear a PVC apron.

Respiratory protection: Where local exhaust ventilation is not practicable wear: half mask respirator with organic vapour cartridge and built-in particulate filter NPF 20 (gas only.)

Hygiene measures: Launder contaminated clothing before re-use.



MATERIAL SAFETY DATA SHEET

SECTION 9.

PHYSICAL AND CHEMICAL PROPERTIES

Form: Liquid **Colour:**

Water white **Odour:**

Strong

Melting / freezing point: < -30 °C (< -22 °F)

Boiling point: 270 - 280 °C (518 - 536 °F)

Flash point: 129 °C (264 °F)

Vapour pressure : < 3 kPa at 20 °C (68 °F)

Density: 910 kg/m³ at 20 °C (68 °F)

Relative vapour density: 5.9

Partition coefficient (n- octanol/water): log Pow: 2.11

Solubility in water: at 25 °C Negligible.

Viscosity, kinematic: 45 mm²/s at 20 °C (68 °F)

Molecular weight (weight average - Mw): 175

SECTION 10.

STABILITY AND REACTIVITY

Materials to avoid: Strong oxidizing agents. Bases, ammonia, primary and secondary amines, water and acids.

Hazardous decomposition: Hazardous decomposition products are not expected to form during normal storage.

Hazardous reactions: Reacts with strong oxidising agents. Reacts exothermically with bases (eg. caustic soda), ammonia, primary and secondary amines, alcohols and acids.



MATERIAL SAFETY DATA SHEET

SECTION 11.

TOXICOLOGICAL INFORMATION

Acute oral toxicity : LD50 - 2,066 mg/kg (Rat)

Low toxicity, LD50 > 2000 mg/kg.

Acute dermal toxicity: LD50 - 3,640 mg/kg (Rat)

Low toxicity, LD50 > 2000 mg/kg.

Eye irritation : Slightly irritating to the eyes. **Sensitization:**

Not a skin sensitiser.

Mutagenicity: Not mutagenic.

Human effects: See Section 4 for information regarding acute effects to humans.

Basis for assessment: Information given is based on a knowledge of the constituents and the toxicology of similar substances.

Potential Health Effects

Ingestion: May be harmful if swallowed.

Skin: May be irritating to the skin.

Eyes: May be irritating to the eyes.

SECTION 12.

ECOLOGICAL INFORMATION

Elimination information (persistence and degradability)

Biodegradability: Not readily biodegradable. Inherently biodegradable.

Bioaccumulation: Has the potential to bioaccumulate.

Ecotoxicity effects

Toxicity to fish: Practically non toxic, $100 < LC/EC/IC 50 \leq 1000$ mg/l .

Toxicity to algae: Slightly toxic, $10 < LC/EC/IC 50 \leq 100$ mg/l .

Acute toxicity - invertebrates : Practically non toxic, $100 < LC/EC/IC 50 \leq 1000$ mg/l .

Sewage treatment: Practically non toxic, $LC/EC/IC 50 > 100$ mg/l .



MATERIAL SAFETY DATA SHEET

Basis for assessment : Information given is based on product data and on data on the components and the toxicology of similar products. Poorly soluble mixture, LC/EC/IC 50 expressed as the nominal amount of product required to prepare aqueous test extract.

SECTION 13.

DISPOSAL CONSIDERATIONS

Product disposal: Place in an appropriate disposal facility in compliance with local regulations.

SECTION 14.

TRANSPORT INFORMATION

IATA_C NOT REGULATED FOR TRANSPORT

IMDG NOT REGULATED FOR TRANSPORT



MATERIAL SAFETY DATA SHEET

SECTION 15.

REGULATORY INFORMATION

The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.

Notification status

AICS:	Listed.
DSL:	Listed.
INV (CN):	Listed.
ENCS (JP):	Listed.
TSCA:	Listed.
EINECS:	Listed.
KECI (KR):	Listed.
PICCS (PH):	Listed.

SECTION 16.

OTHER INFORMATION

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.