

Safety Data Sheet (SDS)

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: C-101C TAPPING PASTE C
 General Use: Lubricant for Metalcutting and Grinding
 This product is not recommended for any industrial, professional or consumer use other than the Intended Uses above.

Manufacturer's Name: NIHON KOHSAKUYU CO., LTD. 日本工作油株式会社
 Address: 5-29-14, Shiba, Minato-ku, Tokyo 108-0014, Japan
 Department in charge : Engineering & Research Department
 Telephone Number: 03-3455-5511 / Head Office
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2. HAZARDS IDENTIFICATION

GHS Classification

Physical Hazards:	Flamable liquid	Not classified
Health Hazards:	Acute Toxicity (Oral)	Not classified
	Acute Toxicity (Dermal)	Not classified
	Acute Toxicity (Inhalation : Gases)	Not applicable
	Acute Toxicity (Inhalation : Vapours)	Classification not possible
	Acute Toxicity (Inhalation : Dust · Mist)	Classification not possible
	Skin Corrosion /Irritation	Category 3
	Serious Eye Damage /Eye Irritation	Not classified
	Respiratory Sensitization	Classification not possible
	Skin Sensitization	Classification not possible
	Germ Cell Mutagenicity	Classification not possible
	Carcinogenicity	Not classified
	Reproductive Toxicity	Classification not possible
	Specific Target Organ Toxicity after single exposure	Not classified
	Specific Target Organ Toxicity following repeated exposure	Not classified
	Aspiration Toxicity	Not classified
Environmental Hazards:	Acute Hazard to the Aquatic Environment	Not classified
	Chronic Hazard to the Aquatic Environment	Not classified
	Hazardous to the Ozone Layer	Classification not possible
Pictograms:	None	
Signal Word:	Warning	
Hazard Statement:	Causes mild skin irritation	

Precautionary Statement :

Avoid breathing mist/vapours/spray. If inhaled, remove victim to fresh air and keep at rest in a position comfortable for breathing.
 If skin irritation occurs, get medical advice/attention.
 Wash hand/face thoroughly after handling. If in eyes, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
 Continue rinsing.
 Obtain special instructions before use. If exposed or concerned, get medical advice/attention.
 Keep out of reach of children.

Other Hazards:

Do not breathe mist/vapours/spray. Do not eat, drink or smoke when using this product. If exposed or if you feel unwell, call a doctor/physician.
 Physical / Chemical Hazards: Material can accumulate static charges which may cause an ignition. Material can release vapors that form flammable mixtures. Vapor accumulation could flash and/or explode if ignited.

Health Hazards: Repeated exposure may cause skin irritation. May be irritating to the eyes, nose, throat, and lungs.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Type of Chemical Product : Preparation

Component :

MINERAL OIL	10 - 50	%
OILINESS AGENT	50<	%
CHLORINE ADDITIVE	1 - 10	%
SOLID LUBRICANT	1>	%

Hazard data (Main component)

Fatty oil 50 - 60 %

No data available. Considered to be low in toxicity.

Not listed as carcinogenic by IARC, NTP, OSHA and ACGIH.

PRTR Law (Japan): This product contains no chemical substance that is listed on the environmentally hazardous materials (562 kinds of substances) in the Japan PRTR (pollutant release and transfer resister) law.

Industrial Safety and Health Law (Japan) This product contains the following chemical substances that are listed on the environmentally hazardous materials in the Japan Industrial Safety and Health Law.

Paraffin wax	1 - 10	by weight %
Mineral Oil	10 - 20	by weight %

4. FIRST-AID MEASURES

- Eye contact : In a case of contact with eyes, flush immediately with plenty of cool water for at least 15 minutes while holding eyelids open. DO NOT permit victim to rub eyes. Get medical attention.
- Skin contact : Remove contaminated clothing/shoes. Wash thoroughly with soap and water. If irritation persists, contact physician.
- Ingestion : May result in vomiting. DO NOT induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration into the lungs. Get medical attention.
- Inhalation: Under fire conditions get person out of the area that may be contaminated with hazardous gas (hydrogen chloride) to fresh air. Remove victim to fresh air and provide oxygen if breathing is difficult. Get medical attention. Give artificial respiration if not breathing.

5. FIRE-FIGHTING MEASURES

- Extinguishing Media: Use water fog, foam, dry chemical or CO2. DO NO use a direct stream of water.
- Special Fire Fighting Procedures and Precautions: Use water to keep fire-exposed containers cool and to protect personnel. Avoid spraying water directly into storage containers due to danger of boil over. DO NOT enter confined space without full bunker gear (Helmet with face shield, Bunker coats, Gloves and Rubber Boots). Material can accumulate static charges, which can cause an incendiary electrical discharge. At high temperature, this product releases hydrogen chloride gas.
- Unusual Fire and Explosion Hazards: Vapor accumulation could flash and/or explode if ignited. Container exposed to intense heat from fires should be cooled with water to prevent pressure buildup. Container areas exposed to direct flame contact should be cooled with large quantities of water as needed to prevent weakening of container structure.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions : Avoid direct contact with skin and eyes. Do not breathe vapor. Extinguish naked flames. Remove ignition sources. No smoking. Avoid sparks. Evacuate the area of all non-essential personnel. Shut off leaks, if possible without personal risk.
- Personal protection : Wear protective gloves, goggles. For guidance on respiratory protection see section 8.
- Environmental Precautions : Avoid uncontrolled releases of this material. Where spills are possible, a comprehensive spill release response plan should be developed and implemented.

Auto-ignition temperature(degree C):	Not determined.
Boiling Point(degree C) :	No data available.
Melting Point Pour Point (degree C):	39
Vaper Pressure(kPa)	Not applicable.
Vapor Density (Air=1):	Not applicable.
Evaporation Rate (n-Butyl Acetate=1) :	Not applicable.
Solubility in Water :	Insoluble or negligible.
Partition Coefficient (n-Octanol/Water)	No data available.
Hydrogen Volatile by Volume(%)as	Not applicable.
Kinematic Viscosity :	No data available.

1 0 . STABILITY AND REACTIVITY

Chemical Stability:	At normal ambient temperatures, this oil is virtually stable.
Possibility of Hazardous Conditions and Materials to Avoid:	Will not occur Avoid heat, flame and contact with strong oxidizing agents.
Hazardous Decomposition Products:	Hydrogen chloride gas, carbon monoxide and unidentified organic compounds may be formed upon combustion.

1 1 . TOXCOLOGICAL INFORMATION

Basis for assessment:	No data available for mixture. See section 3.
Acute toxicity - oral :	No Data Available for mixture.
Acute toxicity - dermal:	No Data Available for mixture.
Acute toxicity - inhalation:	No Data Available for mixture.
Eye irritation :	Direct contact may cause irritation.
Skin irritation :	Liquid is slightly irritating to the skin. Prolonged and repeated contact may cause irritation or skin disorders such as dermatitis or oil acne.
Respiratory Sensitization:	Not expected to be a sensitizer.
Skin Sensitization	Not expected to be a sensitizer.
Mutagenicity:	Not expected to be mutagenic.
Carcinogenicity:	NTP: Not listed. IARC: Not listed. OSHA: Not regulated. (Regarding Ingredients)
Reproductive Toxicity:	Not expected to be a toxicant.
Specific Target Organ Toxicity after single exposure:	Not expected to cause organ damage.
Specific Target Organ Toxicity following repeated exposure:	Not expected to cause organ damage.
Aspiration hazard:	May be fatal if swallowed and enters airways.

1 2 . ECOLOGICAL INFORMATION

Basis for assessment:	No Data Available for mixture.
Environmental Precautions:	Avoid uncontrolled releases of this material. Where spills are possible, a comprehensive spill release response plan should be developed and implemented.
Ecotoxicity:	No Data Available for mixture.
Environmental Mobility:	It is non-liquidity at the normal temperature. At high temperatures over its melting point (approx. 39 degree C), this chemical product flows freely as oil.
Environmental fate and effects:	No Data Available for mixture.
Bioaccumulation :	No Data Available for mixture.
Hazardous to the ozone layer:	No Data Available for mixture.

1 3 . DISPOSAL CONSIDERATION

Precautions: Refer to Section 7 before handling the product or containers.
Disposal Consult an expert on disposal of recovered material and ensure conformity to local disposal
Consideration or regulations.
Waste
Disposal :
Container Drain container thoroughly. After draining, vent in a safe place away from sparks and fire.
Disposal : Residues may cause an explosion hazard. Do not puncture, cut or weld uncleaned drums.
Send to drum recoverer or metal reclaimer.
Local legislation: The recommendations given hereinabove are considered appropriate for safe disposal.
However, local regulations may be more stringent and these must be complied with.

1 4 . TRANSPORT INFORMATION

Transportation Requirements:

ROAD by ADR (European Agreement concerning the International Carriage of Dangerous Goods by Road):

DG Class: not regulated

Label: not required

Packing Group: none

SEA by IMO (International Maritime Organization):

IMDG Code: not regulated

UN number: none

Packing Group: none

Label: not required

Marine Pollutant: No

AIR by IATA/ICAO:

Hazard Class: not regulated

UN number: none

Packing Group: none

Label: not required

Expected Tariff Code

34.03 Lubricating preparations (include cutting-oil preparations, bolt or nut release preparations, anti-rust or anti-corrosion preparations and mould release preparations, based on lubricants) and preparations of kind used for the oil or grease treatment of textile materials, leather, furskins or other materials.
but excluding preparations containing, as basic constituents, 70% or more by weight of petroleum oils or of oils obtained from bituminous minerals:

15. REGULATORY INFORMATION

Toxic Substance Control Act (USA): This product is a mixture therefore is not listed on the EPA/TSCA Inventory of Chemical Substances. All of the components of the mixture are listed on the EPA/TSCA Inventory of Chemical Substances.

Protection of Stratospheric Ozone (The fourth conference of the Parties to the Montreal Protocol): This product does not contain any chemical substances that are listed on the Annexes (A/B/C/E).

Restriction of the use of certain Hazardous Substances (EU: RoHS): This product, including their packing / packaging material, does not contain the following six chemical substances that are restricted by RoHS Directives as instructed in DIRECTIVE 2002/95/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL. (Lead, Mercury, Cadmium, Hexavalent Chromium, PolyBrominated Biphenyls (PBB) or PolyBrominated Diphenyl Ethers (PBDE))

Directive 2002/45/EC of the European Parliament and of the council (EU: This product does not contain "short-chain chlorinated paraffins (Alkanes, C10-C13, chloro: SCCPs)" that is restricted by DIRECTIVE 2002/45/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL.



C-101C NIHON KOHSAKUYU CO.,LTD.
1st. Issue Date : 17-Dec-10
Revision Date: 10-Nov-15
Rev.2
Document No.: EMSDS c101c-003395

Directive 2006/122/EC of the European Parliament and of the council (EU: PFOS): This product does not contain “perfluorooctane sulfonates: PFOS)” that is restricted by DIRECTIVE 2006/122/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (adoption amendment for 76/769/EEC).

1 6 . OTHER INFORMATION

- The format of this MSDS is referring to the international standard of “Safety data sheet for chemical products” ISO 11014-1:2009
- This MSDS is referring to the “GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELING OF CHEMICALS (GHS)”: Fourth revised edition Edition 2011 by UNITED NATIONS.

NOTE: THIS INFORMATION PRESENTED HEREIN IS BELIEVED TO BE CORRECT, ACCURATE AND RELIABLE. HOWEVER, NO REPRESENTATION, WARRANTY OR GUARANTEE IS MADE AS TO THIS ACCURACY, RELIABILITY OR COMPLETENESS. CONDITIONS OF USE AND SUITABILITY OF THE PRODUCT FOR PARTICULAR USES ARE BEYOND OUR CONTROL. ALL RISKS OF USE OF THE PRODUCT ARE THEREFORE ASSUMED BY THE USER.
