

JX NIPPON SS-300

Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date: 02/13/2020

Supersedes: 05/24/2017

Version: 6.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

 Product name : JX NIPPON SS-300
 Product form : Mixtures

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Solvent

1.3. Details of the supplier of the safety data sheet

 JX NIPPON CHEMICAL TEXAS INC.
 10500 Bay Area Blvd.
 Pasadena, Texas 77507
 MRoot@jxncti.com

1.4. Emergency telephone number

Emergency number : 1-703-527-3887 (CHEMTREC)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
GHS-US classification

 STOT RE 2 H373
 Asp. Tox. 1 H304

2.2. Label elements
GHS-US labelling

Hazard pictograms (GHS-US) :



GHS08

 Signal word (GHS-US) : **Danger**

 Hazard statements (GHS-US) : H304 - May be fatal if swallowed and enters airways
 H373 - May cause damage to organs (liver, thyroid gland) through prolonged or repeated exposure (oral)

 Precautionary statements (GHS-US) : P260 - Do not breathe mist, vapours
 P301+P310 - IF SWALLOWED: Immediately call a doctor, a POISON CENTER
 P314 - Get medical advice/attention if you feel unwell
 P331 - Do NOT induce vomiting
 P405 - Store locked up
 P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS US)

No data available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%
Diisopropyl biphenyl	(CAS-No.) 69009-90-1	88 - 92*
1,1'-Biphenyl, tris(1-methylethyl)-	(CAS-No.) 29225-91-0	3 - 7*

*In accordance with paragraph (i) of the OSHA Hazard Communication Standard (29 CFR §1910.1200), the specific chemical identity or exact weight % has been withheld as a trade secret

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SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures general : If exposed or concerned, get medical attention/advice. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before re-use. Never give anything to an unconscious person.
- First-aid measures after inhalation : IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Get medical attention. If breathing is difficult, supply oxygen. If breathing has stopped, give artificial respiration.
- First-aid measures after skin contact : IF ON SKIN (or clothing): Remove affected clothing and wash all exposed skin with water for at least 15 minutes. If irritation develops or persists, get medical attention.
- First-aid measures after eye contact : IF IN EYES: Immediately flush with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do so. Continue rinsing if pain, blinking, or irritation develops or persists, get medical attention. Continue rinsing.
- First-aid measures after ingestion : IF SWALLOWED: rinse mouth thoroughly. Do not induce vomiting without advice from poison control center or medical professional. Get medical attention immediately.

4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/effects : May be fatal if swallowed and enters airways. May cause damage to organs through prolonged or repeated exposure.
- Symptoms/effects after inhalation : May cause respiratory irritation.
- Symptoms/effects after skin contact : May cause skin irritation.
- Symptoms/effects after eye contact : Direct contact with eyes is likely to be irritating.
- Symptoms/effects after ingestion : May be fatal if swallowed and enters airways.
- Chronic symptoms : May cause damage to organs through prolonged or repeated exposure.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Carbon dioxide. Dry chemical. Water fog.

5.2. Special hazards arising from the substance or mixture

- Fire hazard : Heating may cause a fire.
- Explosion hazard : Heating may cause an explosion.
- Reactivity : No dangerous reactions known under normal conditions of use.

5.3. Advice for firefighters

- Precautionary measures fire : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Do not dispose of fire-fighting water in the environment.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Evacuate area. Ventilate area. Keep upwind. Spill should be handled by trained clean-up crews properly equipped with respiratory equipment and full chemical protective gear (see Section 8).

6.1.1. For non-emergency personnel

- Protective equipment : Wear Protective equipment as described in Section 8.
- Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

- Protective equipment : Wear suitable protective clothing, gloves and eye or face protection. Approved supplied-air respirator, in case of emergency.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

- For containment : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.
- Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Scoop solid spill into closing containers or bags. This material and its container must be disposed of in a safe way, and as per local legislation.

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6.4. Reference to other sections

See Sections 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Do not handle until all safety precautions have been read and understood. Do not get in eyes, on skin, or on clothing. Use only in well-ventilated areas. Avoid breathing mist, vapours. Keep away from sources of ignition - No smoking. Use only non-sparking tools. Ground/bond container and receiving equipment. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition.

Storage conditions : Store in a dry, cool and well-ventilated place. Keep the container tightly closed. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Diisopropyl biphenyl (69009-90-1)	
Remark (ACGIH)	OELs not established
Remark (OSHA)	OELs not established
1,1'-Biphenyl, tris(1-methylethyl)- (29225-91-0)	
Remark (ACGIH)	OELs not established
Remark (OSHA)	OELs not established

8.2. Exposure controls

Appropriate engineering controls : Provide adequate general and local exhaust ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof equipment with flammable materials. Ensure adequate ventilation, especially in confined areas.

Personal protective equipment : Gloves. Protective goggles. Protective clothing. Insufficient ventilation: wear respiratory protection.



Hand protection : Use gloves chemically resistant to this material when prolonged or repeated contact could occur. Gloves should be classified under Standard EN 374 or ASTM F1296. Suggested glove materials are: Neoprene, Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, PVC or vinyl. Suitable gloves for this specific application can be recommended by the glove supplier.

Eye protection : Wear eye protection, including chemical splash goggles and a face shield when possibility exists for eye contact due to spraying liquid or airborne particles.

Skin and body protection : Wear long sleeves, and chemically impervious PPE/coveralls to minimize bodily exposure.

Respiratory protection : Wear a NIOSH-approved (or equivalent) full-facepiece airline respirator in the positive pressure mode with emergency escape provisions. In case of inadequate ventilation or risk of inhalation of vapors, use suitable respiratory equipment with gas filter (type A2). Use a positive-pressure air-supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air-purifying respirators may not provide adequate protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
Color : Clear
Odor : Slight
Odor Threshold : No data available
pH : No data available
Relative evaporation rate (butylacetate=1) : No data available
Pourpoint : > -40 °C (DIN/ISO 3016)
Melting point : -40 °C (< -40 °F)
Freezing point : No data available

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Boiling point	: 314 - 321 °C at 1013 hPa (DIN 51751)
Flash point	: 168 °C (DIN 51758) closed cup
Auto-ignition temperature	: > 415 °C (DIN 51794)
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: 0.139 Pa at 25 °C (OECD 104)
Relative vapour density at 20 °C	: 8.1 (Air = 1)
Relative density	: No data available
Density	: 0.95 g/cm ³ at 20 °C (DIN 51757)
Solubility	: Water: 0.033 mg/l at 25 °C Regulation (EC) NO 440/2008, A.6
Log Pow	: 6.67 USEPA EPI Suite environmental assessment program
Log Kow	: No data available
Viscosity, kinematic	: 13.18 mm ² /s at 40 °C (DIN 51562) 29.63 mm ² /s at 20 °C (DIN 51562)
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: 0.3 - 3 vol %
Solvent content	: 100 %
Water content	: ≤ 150 ppm (ASTM D 1533)

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known under normal conditions of use.

10.2. Chemical stability

Stable under recommended handling and storage conditions (see section 7).

10.3. Possibility of hazardous reactions

Strong oxidizing materials may ignite this material.

10.4. Conditions to avoid

Avoid contact with : Incompatible materials.

10.5. Incompatible materials

Strong oxidizers.

10.6. Hazardous decomposition products

Carbon monoxide. Pyrolysis.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

JX NIPPON SS-300	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 5000 mg/kg
LC50 inhalation rat (mg/l)	> 5.64 mg/l/4h OECD 403

Skin corrosion/irritation	: Not classified Low irritant effect - not necessary to label (rabbit)
Serious eye damage/irritation	: Not classified This compound was found to be non-irritating to rabbit eyes
Respiratory or skin sensitisation	: Not classified Non-sensitizing (Guinea pig) OECD 406
Germ cell mutagenicity	: Not classified Negative Mouse lymphocytic cells (OECD 476)
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified NOAEL 100 mg/kg/d [oral] Rat (OECD 414) Indications of maternal toxicity
Specific target organ toxicity (single exposure)	: Not classified

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Specific target organ toxicity (repeated exposure)	: May cause damage to organs (liver, thyroid gland) through prolonged or repeated exposure (oral).
Subacute Toxicity	: NOAEL 15 mg/kg/d [oral] (20d) Rat (OECD 407) No abnormal signs
Aspiration hazard	: May be fatal if swallowed and enters airways.
Symptoms/effects after inhalation	: May cause respiratory irritation.
Symptoms/effects after skin contact	: May cause skin irritation.
Symptoms/effects after eye contact	: Direct contact with eyes is likely to be irritating.
Symptoms/effects after ingestion	: May be fatal if swallowed and enters airways.
Chronic symptoms	: May cause damage to organs through prolonged or repeated exposure.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

JX NIPPON SS-300	
LC50 fish 1	> 8.24 µg/l Rainbow Trout; 96 hours
LC50 other aquatic organisms 1	> 0.0101 mg/l Selenastrum capricornutum; 72 hours (OECD 201)
EC50 Daphnia 1	> 4.52 µg/l 48 hours (Method ECC C.2 (2,3))

12.2. Persistence and degradability

JX NIPPON SS-300	
Persistence and degradability	ca. 58% (28 days) CO ₂ formation in % of theoretical value (OECD 301 C). Moderately/partially biodegradable.

12.3. Bioaccumulative potential

JX NIPPON SS-300	
BCF fish 1	1310 - 3930 (OECD 305 C, 42 d, Cyprinus carpio)
Log Pow	6.67 USEPA EPI Suite environmental assessment program

12.4. Mobility in soil

JX NIPPON SS-300	
Mobility in soil	Low adsorption in soil and sediment
Ecology - soil	Henry constant (H) at 20 °C: 1028 Pa*m ³ /mol (calculated).

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods	: Obtain the consent of pollution control authorities before discharging to wastewater treatment plants.
Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations. Do not allow the product to be released into the environment.

SECTION 14: Transport information

In accordance with DOT

Transport by land (DOT)

Not regulated for transport

Transport by sea (IMDG)

Transport document description (IMDG)	: UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (JX NIPPON SS-300), 9, III, MARINE POLLUTANT
UN-No. (IMDG)	: 3082
Proper Shipping Name (IMDG)	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Class (IMDG)	: 9 - Miscellaneous dangerous substances and articles
Packing group (IMDG)	: III - substances presenting low danger
Limited quantities (IMDG)	: 5 L
Marine pollutant	: Yes



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Air transport (IATA)

Transport document description (IATA) : UN 3082 Environmentally hazardous substance, liquid, n.o.s. (JX NIPPON SS-300), 9, III
UN-No. (IATA) : 3082
Proper Shipping Name (IATA) : Environmentally hazardous substance, liquid, n.o.s.
Class (IATA) : 9 - Miscellaneous Dangerous Goods
Packing group (IATA) : III - Minor Danger

Marine pollutant : Yes



SECTION 15: Regulatory information

15.1. US Federal regulations

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All chemical substances in this product are listed in the EPA (Environment Protection Agency) TSCA (Toxic Substances Control Act) Inventory or are exempt.

SARA Section 311/312 Hazard Classes	Health hazard - Specific target organ toxicity (single or repeated exposure) Health hazard - Aspiration hazard
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15.2. International regulations

No additional information available.

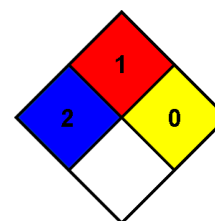
15.3. US State regulations

This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm

SECTION 16: Other information

Indication of changes : Revision 6.0.
Revision date : 02/13/2020
Other information : Author: JLJ.

NFPA health hazard : 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.
NFPA fire hazard : 1 - Materials that must be preheated before ignition can occur.
NFPA reactivity : 0 - Material that in themselves are normally stable, even under fire conditions.



Hazard Rating

Health : 2
Flammability : 1
Physical : 0
Personal protection :

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product