

Material Safety Data Sheet

SELLEYS

Product name: Liquid Nails Upgraded Formula

(prepared in accordance with GB/T

16483 and GB/T 17519)

Revision Date: 2025.03.21

SDS Number: H590000122

Initially issued on :2023.6.28

Version 0.0

1. PRODUCT AND COMPANY IDENTIFICATION

Product name (English) : Liquid Nails Upgraded Formula

Manufacturer or supplier's details

Manufacturer : Nippon Paint (Qingyuan) Co., Ltd
Address of manufacturer: : No.17 Guangzhou Road, Shijiao Town, Qingyuan
511545

Telephone : +867633768777
E-mail address : HSE.RHQ@nipponpaint.com.cn
Tel. of department : +86-21-38719988-629881
responsible for SDS

Emergency telephone : **+86-532-83889090(24h) ; Emergency hotline chemical**
number **accident state (signed entrustment agreement)**

Recommended use of the chemical and restrictions on use

Recommended use : Adhesives and sealants for building

Restrictions on use : Use only in area provided with appropriate exhaust ventilation.

2. HAZARDS IDENTIFICATION

GHS Classification

Flammable liquids : Category 2
Skin corrosion/irritation : Category 3
Serious eye damage/eye : Category 2A
irritation
Specific target organ toxicity - : Category 3 (Narcotic effects)
single exposure
Short-term (acute) aquatic : Category 2
hazard
Long-term (chronic) aquatic : Category 2
hazard

GHS label elements

Hazard pictograms :



Signal word : Danger

Hazard statements : H225 Highly flammable liquid and vapour.
H316 Causes mild skin irritation.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**
P210 Keep away from heat/ sparks/ open flames/ hot surfaces.
No smoking.

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P233 Keep container tightly closed.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ ventilating/ lighting equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P261 Avoid breathing mist or vapours.
P264 +P265 Wash skin thoroughly after handling. Do not touch eyes.
P271 Use only outdoors or in a well-ventilated area.
P273 Avoid release to the environment.
P280 Wear protective gloves/ eye protection/ face protection/hearing protection.

Response:

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
H319 Call a POISON CENTER/ doctor if you feel unwell.
P332 + P317 If skin irritation occurs: Get medical advice/ attention.
P337 + P317 If eye irritation persists: Get medical advice/ attention.
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
P391 Collect spillage.

Storage:

P403 + P233+P235 Store in a well-ventilated place. Keep container tightly closed. Keep cool.
P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Physical and chemical danger

Highly flammable liquid and vapour.

When mixed with air to a certain ratio, its vapor is likely to burn and explode once in contact with open fire and high heat. Violent reaction with strong oxidants. Flow will produce static electricity. When the static electricity accumulates to a certain extent, it may cause a fire or explosion. Its vapor is of higher density than the air and can diffuse quite far at lower elevation, which would catch fire and cause backdraft if meets ignition source.

Health hazard

Causes serious eye irritation.

Causes mild skin irritation.

May cause drowsiness or dizziness.

Environmental hazard

Toxic to aquatic life with long lasting effects.

Other hazards which do not result in classification

Material Safety Data Sheet



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No relevant report available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Light aromatic solvent naphtha (petroleum) (CAS No. 64742-95-6), with less than 0.1% of benzene (CAS No. 71-43-2), germ cell mutagenicity or carcinogenicity classifications are not applied.

Hazardous components

Chemical name	CAS-No.	Concentration [%]
Acetic acid, methyl ester	79-20-9	>= 20 - < 30
n-Heptane	142-82-5	>= 2.5 - < 10
2-Propanone	67-64-1	>= 1 - < 10
Solvent naphtha, petroleum, light arom.	64742-95-6	>= 1 - < 10

4. FIRST AID MEASURES

- If inhaled : Evacuate the area immediately and get access to fresh air. Give victims artificial respiration when their natural respiration cease or falter. Use medical oxygen, if possible. Seek medical help upon demonstration of symptoms.
- In case of skin contact : Rinse the affected skin immediately with running water for at least 15 minutes and remove contaminated clothing. Seek medical attention immediately. Do not put on contaminated clothes before laundering. Clean them up thoroughly or dispose of contaminated clothing. Except hydrofluoric acid.
- In case of eye contact : Keep your eyes open. Rinse your eyes with running water for at least 15 minutes; for contact lens wearers, take off your lenses. If irritation persists, seek medical treatment right away.
- If swallowed : Do not induce vomiting. Get medical help or contact a Poison Control Center right away. If the victim is conscious, give him or her large quantities of water to drink. Feeding unconscious victim is prohibited.
- Most important symptoms and effects, both acute and delayed** : Causes mild skin irritation.
Causes serious eye irritation.
May cause drowsiness or dizziness.
- Protection of first-aiders** : First aid responders should be equipped with appropriate personal protective equipment before entering the scene to avoid exposure to toxic substance and wear portable respirator, where necessary. Use a respirator instead of mouth-to-mouth respiration for avoidance of poisoning. Plastic linens or bags shall be included in an ambulance' disposable supplies to prevent further contamination.

5. FIREFIGHTING MEASURES

Fire extinguishing agent

Suitable extinguishing media : Use water mist, dry powder, foam or carbon dioxide fire

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Version 0.0

Unsuitable extinguishing media	: extinguisher for fire fighting. : Avoiding pointing fire hoses directly onto flames as this might trigger splash of flammable liquid and spread the fire in turn.
Special hazard(s)	: Highly flammable liquids and vapors. Toxic gases such as carbon monoxide or carbon dioxide might be released during burning. Containers run the risk of cracking and explosion as the pressure inside increases when they are in fire.
Specific extinguishing methods	: Transfer as many containers away from fire as possible to open ground. Apply water mist spray onto containers in fire for cooling till the fire die down. Evacuate the scene immediately if the containers in fire discolored or sound a warning note from the safety venting device. Seal off the scene. No trespassing of unauthorized personnel. Recycle and process water used in fire fighting to prevent pollution.
Special protective equipment for firefighters	: Firefighter must wear gas respirator and complete firefighter uniform and extinguish fire at upwind.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	: Emergency responders are advised to carry portable air respirators and wear anti-static garment and rubber grease resistance gloves. Contact with or crossing over leakage is prohibited. All equipment used in work should be grounded. Block the source of leak, if possible. Put out all intermittent sparks. Fire alarm zones shall be marked in areas under the impact of liquid flow and vapor diffusion; unauthorized personnel shall evacuate to safety zones against the wind or sideways to the wind.
Environmental precautions	: Block the source of leak and recycle the leakage for environmental protection. Prevent leakage flowing into the sewers, surface or underground water.
Methods and materials for containment and cleaning up	: Absorb leakage with inert absorbent, collect it into containers using clean, non-sparking tools and transfer them to safe places. No flushing of leakage down sewers.
Prevention of secondary hazards	: Remove all ignition sources. Prevent leakage from entering sewer, surface water and underground water.

7. HANDLING AND STORAGE

Technical measures/Precautions

Advice on safe handling	: Operators shall have received special training and strictly abide by operating procedures. Operation shall be carried out in partially or fully ventilated places. Avoid contact with eyes, skin and inhalation of vapors. See Part 8 for Personal Protective Measures. Keep off sparks and sources of heat; no smoking in working areas. Use anti-explosive ventilation system and equipment. Control fluid speed in filling containers and connect the system to ground to prevent accumulation of static electricity. Avoid contact with banned substances such
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as oxidants. (See Part 10 for banned substances) Load and unload with care when transferring and avoid damage to package and containers. Empty containers may contain hazardous chemicals. Wash hands after use. No eating or drinking at workplace. Fire fighting apparatus and equipment for emergency treatment of chemical leakage shall be supplied in appropriate varieties and quantities. Avoid contact with banned items such as reducing agents or other flammables (see Part 10 for banned items).

Storage

Conditions for safe storage : Store them in a cool, ventilated warehouse. The warehouse temperature shall not be above 37 degrees centigrade. These apparatus and equipment should be stored separately from oxidants, food chemicals to avoid mixing of storage (see Part 10 for banned items). Keep the container airtight. Keep it away from fire and heat. Use anti-explosion lights and ventilation system. No equipment or tools that can easily spark a flame shall be used. The storage area shall be furnished with appropriate equipment for emergency treatment of leakage and proper collecting devices. Keep in separate storage with food chemicals. Mixing of stored items is prohibited (see Part 10 for banned items). The storage area shall be furnished with appropriate equipment for emergency handling of leakage and proper collecting devices.

Materials to avoid : Strong oxidizing agents

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Basis	Value type (Form of exposure)	Control parameters / Permissible concentration	Remarks:
Acetic acid, methyl ester	79-20-9	CN OEL	PC-TWA	200 mg/m ³	
		CN OEL	PC-STEL	500 mg/m ³	
n-Heptane	142-82-5	CN OEL	PC-TWA	500 mg/m ³	
		CN OEL	PC-STEL	1,000 mg/m ³	
2-Propanone	67-64-1	CN OEL	PC-TWA	300 mg/m ³	
		CN OEL	PC-STEL	450 mg/m ³	

Biological occupational exposure limits

Component	CAS-No.	Basis	Biological specimen	Biological monitoring indicators	Biological limit	Sampling time
2-Propanone	67-64-1	CN BEI	Urine	Acetone	50 mg/l	End of shift

Material Safety Data Sheet



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Recommended monitoring procedures

If suitable advice on supervision method is needed, please pursue instruction from qualified occupational health personnel. For sampling method of the substance, refer to GBZ159 Specifications of air sampling for hazardous substances monitoring in the workplace.

Engineering measures : Dispose it in well-ventilated area to ensure concentration of the substance in area is lower than occupational contact limit. Set emergency evacuation passageway and necessary hazard-leaking area. Provide safe showering and eye-wash equipment.

Personal protective equipment

Respiratory protection : When concentration of chemical in air exceeds permissible exposure limit, protective (facial) mask filters shall be worn. In emergency rescue or evacuation, wear portable air respirators.

Hand protection
Remarks : During execution of certain tasks, wear protective gloves of proper chemical resistance while taking into account the possible penetration and degradation likely to occur in performance.

Eye protection : Wear safe glasses with site-protective frame or goggles.
Skin and body protection : Flame retardant antistatic protective clothing.
Hygiene measures : Wash hands and face before breaks and immediately after handling the product.
Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Thixotropic Liquid

Colour : white, brown

Odour : Solvent odor

pH : Not applicable

Melting point/freezing point : No data available

Boiling point/boiling range/initial boiling point and boiling range : 53 °C

Flash point : -17 °C
Method: closed cup

Upper explosion limit : No data available

Lower explosion limit : No data available

Vapour pressure : No data available

Density : 1.30 g/cm³ (25 °C)

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Solubility(ies)

Water solubility : insoluble

Solubility in other solvents : soluble

Partition coefficient: n-
octanol/water : No data available

Auto-ignition temperature : No data available

Thermal decomposition : No data available

Viscosity

Viscosity, dynamic : 700,000 - 950,000 mPa.s

Viscosity, kinematic : No data available

10. STABILITY AND REACTIVITY

Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions : Contact with strong oxidizing agents may cause fire and explosion.

Conditions to avoid : Heat, flames and sparks.

Materials to avoid : Strong oxidizing agents

Hazardous decomposition products : No data available

11. TOXICOLOGICAL INFORMATION

Acute toxicity

No data available

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitisation

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

No data available

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Reproductive toxicity

No data available

STOT - single exposure

No data available

STOT - repeated exposure

No data available

Aspiration toxicity

No data available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Further information

The following percentage of the mixture consists of ingredient(s) with unknown hazards to the aquatic environment: 68.7 %

Persistence and degradability

No data available

Bioaccumulative potential

Product:

Partition coefficient: n-octanol/water : Remarks: No data available

Mobility in soil

No data available

Other adverse effects

No data available

13. DISPOSAL CONSIDERATIONS

Disposal methods

- Waste from residues** : Recycling of products is encouraged. Avoid or reduce waste as much as possible. No direct flushing down sewers, into soil or waters.
- Contaminated packaging** : Send back the vessel to manufacturer or dispose of it in accordance with national and local regulations.
- Disposal considerations** : Before disposal of wastes, refer to relevant national and regional rules, and dispose wasted products and contaminated packages according to local regulations.

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14. TRANSPORT INFORMATION

International Regulations

UNRTDG

UN number : 1133
Proper shipping name : ADHESIVES
Class : 3
Packing group : II
Labels : 3

IATA-DGR

UN/ID No. : 1133
Proper shipping name : Adhesives
Class : 3
Packing group : II
Labels : 3
Packing instruction (cargo aircraft) : 364
Packing instruction (passenger aircraft) : 353

IMDG-Code

UN number : 1133
Proper shipping name : ADHESIVES
Class : 3
Packing group : II
Labels : 3
EmS Code : F-E, S-D
Marine pollutant : YES

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

National Regulations

GB 6944/12268

UN number : 1133
Proper shipping name : ADHESIVES
Class : 3
Packing group : II
Labels : Flammable liquids
Packing Instructions : Paper cartridge
Transportation considerations : Mixed transportation or packing with oxidants or food chemicals is prohibited. Vehicles for transportation of products shall be installed with fire proof devices on exhaust pipes; no loading or discharge of products by mechanical equipment and instrument that generate sparks easily. Load and unload products with care and avoid damage to package and containers. Prevent exposure to excessive sunlight and avoid packing leakage. Prevent exposure to excessive sunlight, rainfall or scorching heat during transportation. Keep away from sparks, sources of heat and high temperature

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during stopovers. During road transportation of products, the transportation shall follow the planned route; do not stop over in residential areas or densely populated areas. The transportation vehicles shall be supplied with fire fighting apparatus and equipment for emergency treatment of chemical leakage in appropriate varieties and quantities., During road transportation of products, the transportation shall follow the planned route; do not stop over in residential areas or densely populated areas., The transportation vehicles shall be supplied with fire fighting apparatus and equipment for emergency treatment of chemical leakage in appropriate varieties and quantities.

Special precautions for user

Not applicable

15. REGULATORY INFORMATION

For the following undated regulations or standards, the latest versions shall apply to the SDS. The standard of this SDS refers to: GB/T 16483 safety data sheet for chemical products-content and order of sections.

Reference for the occupational exposure limits for hazardous agents of the SDS: GBZ 2.1 Occupational Exposure Limit for Hazardous Agents in the Workplace - Chemical Hazardous Agents

If the articles are dangerous chemicals, the following regulations and standards shall be complied with: Regulations on the Control over Safety of Hazardous Chemicals.

16. OTHER INFORMATION

Preparation and revisions :

2. HAZARDS IDENTIFICATION.
7. HANDLING AND STORAGE.
8. EXPOSURE CONTROLS/PERSONAL PROTECTION.
15. REGULATORY INFORMATION.

Sources of key data used to compile the Safety Data Sheet :

[1] Data in Part 9/11/12 is taken from International Chemical Safety Cards (Chinese version); Medical Library; TOXNET NLM; IUCLID.
[2] Globally harmonized system of classification and labeling of chemicals (latest version).
[3] Proposal model regulation on transportation of dangerous goods (latest version).

Abbreviations and acronyms :

GHS: Globally Harmonized System of Classification and Labeling of Chemicals (Globally Harmonized System of Classification and Label

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PC-STEL: permissible concentration-short term exposure limit, meaning the permissible short time (15 min) contact concentration when PC-TWA is followed.

PC-TWA: permissible concentration-time weighted average, meaning the average permissible contact concentration of 8h workday, 40h work week regulated at time weighting.

IARC: International Agency for Research on Cancer.

BEL: biological exposure limit , also referring to biological exposure indices (BEIs) or biological limit value (BLV); the toxic substance to people contacting biological materials.

ACGIH: American Conference of Governmental Industrial Hygienist.

Disclaimer

Sellers, users, transportation and storage persons (hereinafter referred to as "users") may obtain valid and the latest SDS through official channel of Nippon Paint China Group, and please read it with care. Users are advised to accept professional drills or training as appropriate.

The safety data sheet are prepared based on our current knowledge and experience, and only describe the safety requirement of the product. Those materials do not describe nature of the products (technical specification of product), so information about the product having the features and feasibility for special purpose should not be obtained from the safety data sheet. Users have the responsibility to ensure their abidance by laws and regulations in force and relevant regulations of the SDS. Users obtaining the SDS must independently estimate the feasibility of the SDS under special use conditions. For any harm from use of the product due to non-conformance to the disposal method provided by SDS, or any harm from use in the disposal conditions or environment not mentioned in SDS, Nippon Paint China Group will not be held liable.

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