

分類番号	NL-0001E	名称	SDS NLG ADHESIVE	ページ	1/1
改訂日	2015. 10. 09			改訂番号	Rev.3

改訂履歴表

改訂 番号	改訂日	承認	確認	作成	改訂内容
0	2005. 02. 09	丹生	石切山	内田	新規制定
1	2009. 10. 19		青木	藤間	Date prepared の変更
2	2015. 06. 18		平良	齊藤	GHS 書式へ変更
3	2015. 10. 09				MSDS→SDS への変更

ニッタグループ

# SAFETY DATA SHEET

## **1. PRODUCT & COMPANY IDENTIFICATION**

PRODUCT NAME :NLG ADHESIVE

### COMPANY IDENTIFICATION

Company name :NITTA CORPORATION (INDUSTRIAL PRODUCTS DIV.)  
Address :172,IKEZAWA-CHO, YAMATOKOHRUYAMA-SHI, NARA, 639-1085, JAPAN  
Department :PRODUCT DEVELOPMENT DEPARTMENT  
Telephone :+81-743-56-5761  
Fax :+81-743-56-0718  
Emergency telephone :+81-743-56-0581(NARA FACTORY)

## **2. HAZARD IDENTIFICATION**

GHS CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

### PHYSICAL HAZARDS

- Explosives :Not applicable
- Flammable gases :Not applicable
- Flammable aerosols :Not applicable
- Oxidizing gases :Not applicable
- Gases under pressure :Not applicable
- Flammable liquids :Category 2
- Flammable solids :Not applicable
- Self-reactive substances and mixtures :Not applicable
- Pyrophoric liquids :Not classified
- Pyrophoric solids :Not applicable
- Self-heating substances and mixtures :Not classified
- Substances and mixture which, in contact with water, emit flammable gases :Not applicable
- Oxidizing liquids :Not applicable
- Oxidizing solids :Not applicable
- Organic peroxides :Not applicable
- Corrosive to metals :Not classified

**HEALTH HAZARDS**

- Acute toxicity (oral) :Category 5
- Acute toxicity (skin) :Not classified
- Acute toxicity (inhalation: gas) :Not applicable
- Acute toxicity (inhalation: vapor) :Category 5
- Acute toxicity (inhalation: dust, mist) :Not applicable(dust)
- Acute toxicity (inhalation: dust, mist) :Classification not possible(mist)
- Skin corrosion / irritation :Category 2
- Serious eye damages / eye irritation :Category 2B
- Respiratory sensitization :Classification not possible
- Skin sensitization :Classification not possible
- Germ cell mutagenicity :Not classified
- Carcinogenicity :Not classified
- Reproductive toxicity :Not classified
- Specific target organ toxicity; single exposure :Category1(central nervous system)  
:Category 2 (kidney)  
:Category 3(respiratory tract irritation)
- Specific target organ toxicity; repeated exposure :Category 1(central nervous system ,peripheral nervous)  
:Category 2
- Aspiration hazard :Category 2

**ENVIRONMENTAL HAZARDS**

- Aquatic toxicity (acute) :Not classified
- Aquatic toxicity (chronic) :Not classified

**GHS LABEL ELEMENTS INCLUDING PRECAUTIONARY STATEMENTS**

SYMBOL :



SIGNAL WORD : Danger

HAZARD STATEMENT : Highly flammable liquid and water

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May be harmful if swallowed

Causes serious eye irritation

May damage fertility or the unborn child

Causes damage to organs

May cause respiratory

May cause drowsiness or dizziness

Cause damage to organs through prolonged or repeated exposure

#### PRECAUTIONARY STATEMENTS

##### 【Prevention】

- Avoid inhalation, ingestion, eyes contact.
- Do not eat, drink or smoke when using this product.
- Use in a well-ventilated area.
- Flush thoroughly after handling.
- Keep away from heat/sparks/open flames/hot surfaces.

##### 【Response】

- Inhalation : Move to fresh air and keep at rest in a position comfortable for breathing.
- Ingestion : Rinse mouth with water.
- Eyes contact : Rinse cautiously with water for several minutes.
- In case of fire : Use dry chemical powder, carbon dioxide, foam, water spray.

##### 【Storage】

- Store in a well-ventilated, cool and dry place.
- Keep away from sources of ignition.

##### 【Disposal】

- Dispose of contents / container to waste in accordance with local / regional / national / international regulations.

### **3. COMPOSITION/INFORMATION ON INGREDIENTS**

PRODUCT DESCRIPTION : Mixture

Ingredients	CAS No.	METI No.	Chemical structure	% by weight
Polyurethane	—	—	N.A	20
2-Butanone :Methyl Ethyl Ketone	78-93-3	—	CH <sub>3</sub> COC <sub>2</sub> H <sub>5</sub>	20
Acetic Acid, Ethyl Ester:	141-78-6	—	CH <sub>3</sub> COOC <sub>2</sub> H <sub>5</sub>	60

#### **4. FIRST AID MEASURES**

##### INHALATION

- Move to fresh air and keep at rest in a position comfortable for breathing.
- Get medical advice/attention if you feel unwell.

##### EYES CONTACT

- Rinse cautiously with water for several minutes.
- If eye irritation persists, get medical advice/attention.

##### INGESTION

- Rinse mouth with water immediately.

#### **5. FIRE-FIGHTING MEASURES**

##### SUITABLE EXTINGUISHING MEDIA

- Dry chemical powder, carbon dioxide, foam, water spray

##### SPECIAL PROTECTIVE FOR FIRE- FIGHTERS

- Because hazardous gases may be generated during fire-fighting, firefighters have to wear appropriate protective equipment (gloves, glasses, and mask, self-contained breathing apparatus)

#### **6. ACCIDENTAL RELEASE MEASURES**

- Use extra personal protective equipment. Keep people away from and up wind of spill/leak.
- Prevent product from entering drain.
- Absorb spilled material in dry sand or inert absorbent before recovering it into an airtight container.
- In case of large amount of spillage, contain a spill by banding.
- Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulation.

#### **7. HANDLING AND STORAGE**

##### HANDLING

- Avoid contact with eyes, inhale the abrasion dust of this product.
- Take measures to prevent the buildup of electrostatic.
- Use explosion-proof equipment.
- Prevent generation of vapor or mist.

##### STORAGE

- Store in a well-ventilated, cool and dry place.
- Store away from incompatible materials such as oxidizing agents.
- Keep away from flame.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

Ingredients	CONTROL LIMIT ppm(mg/m <sup>3</sup> )	OCCUPATIONAL EXPOSURE LIMITS ppm(mg/m <sup>3</sup> )		
		J.Soc.Occup.Health	ACGIH	OSHA
Polyurethane	N.A	NA	N.A	N.A
2-Butanone :Methyl Ethyl Ketone	200/N.A	200(590)/1998/N.A	200(590)/1998/TLV-TWA 300(885)/1998/TLV-STEL	200/N.A/PEL-TWA
Acetic Acid, Ethyl Ester: Ethyl Acetate(E-A)	400/N.A	200(720)/1998/N.A.	400(1440)/1998/TLV-TWA	400/N.A/PEL-TWA

## Engineering control

- Install a closed system or local exhaust. Also install safety shower and eye bath.

## PERSONAL PROTECTIVE EQUIPMENT

- Half or full face piece respirator, self-contained breathing apparatus(SCBA), supplied air respirator, etc.
- Impervious gloves.
- Safety goggles.
- impervious protective clothing.
- Protective boots, if the situation requires.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

• General Information	
<ul style="list-style-type: none"> <li>• Form : Liquid</li> <li>• Color : colorless</li> <li>• Odor : Acetone like, Ester like odor</li> </ul>	<ul style="list-style-type: none"> <li>• Specific Density : 0.81(MEK) 0.90(E-A)</li> <li>• Vapor density(AIR=1) : 3.8(Re) 1.1(Me)</li> <li>• Vapor pressure : 1mmHg at 108°C(Re) 95mmHg at 20°C(Me)</li> </ul>
<ul style="list-style-type: none"> <li>• Boiling Range : 79.6°C(MEK) 77°C(E-A)</li> <li>• Melting point : -86°C(MEK) -82.4°C(E-A)</li> </ul>	<ul style="list-style-type: none"> <li>• Flash point : -9°C(MEK) -4°C(E-A)(Close cup)</li> <li>• Self-igniting : -</li> </ul>
<ul style="list-style-type: none"> <li>• Flammable Limits : 1.7~11.4% (MEK) 2.0~11.5% (EA)</li> </ul>	<ul style="list-style-type: none"> <li>• Water solubility : 1ml/4ml Water at 20°C(MEK) 1ml/10ml Water at 25°C(E-A)</li> <li>• Other solvent miscible : Many organic solvents</li> </ul>

**10. STABILITY AND REACTIVITY**

- Chemical Stability : Stable under normal temperatures and pressures.
- Hazardous Decomposition Products : Carbon monoxide, Carbon dioxide
- Conditions to Avoid : Spark, Open flame, Static discharge

- Incompatibility :Oxidizing agents, Acids, Bases, Reducing agents

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## **11. TOXICOLOGICAL INFORMATION**

ACUTE TOXICITY [ORAL, SKIN, INHALATION]

Eye:Irritant(Rabbit) Skin:Irritant(Rabbit)

Toxic;LD50(Oral-Rat)6.86ml/kg(MEK) LD50(Oral-Rat)5600mg/kg(E-A)

## **12. ECOLOGICAL INFORMATION**

ENVIRONMENTAL TOXICITY

- MEK  
Pimephales promeals:LC50(96hrs) ;3,200mmg/l.  
Daphnis pulex:LC50(48hrs);530mg/l/
- E-A  
Fish : LC50=270/333mg/l LC100=360/360mg/l/

## **13. DISPOSAL CONSIDERATIONS**

- Dispose in accordance with local / regional / national / international regulations.

## **14. TRANSPORT INFORMATION**

- Land : Transport in accordance with your country and regions regulations.
- Sea :Transport in accordance with IMDG Code.
- Air :Transport in accordance with ICAO-TI/IATA-DGR.
- UN number :1133
- Proper shipping name:Adhesives containing flammable liquid
- Hazard class :3
- Packing group: II

## **15. REGULATORY INFORMATION**

- Observe the law or regulations of your country about this material.

## **16. OTHER INFORMATION**

The information contained herein is furnished based on various literatures currently available, but may not cover all the facts. It is likely to be revised by a new finding.

It is therefore requested to handle with adequate care.

Close attention is necessary for handling because there is an unknown hazardous property in all chemicals. In user's responsibility, please set safe use conditions.