

**SAFETY DATA SHEET**

**Issuing Date** 6/1/2015      **Revision Date** 6/1/2015      **Revision Number** 1

**1. IDENTIFICATION**




**Product Identifier**  
**Product Name** NSC6002, NSC6035, NSC6005, NSC603  
**Other means of identification**  
**Synonyms** NONE  
**Recommended use of the chemical and restrictions on use**  
**Recommended use** Writing Instrument  
**Uses advised against** No information available  
**Details of the supplier of the safety data sheet**  
**Supplier Name** Yasutomo Inc.  
**Supplier Address** 1805 Rollins Road  
 Burlingame, CA  
 94010  
**Supplier Phone Number** 650 737 8888  
**Supplier Email** [yasutomo490@gmail.com](mailto:yasutomo490@gmail.com)  
**Emergency telephone number** 650 737 8888

**2. HAZARDS IDENTIFICATION****Classification**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute Toxicity - Oral	Category 4
Serious eye damage/eye irritation	Category 1
Specific target organ toxicity (repeated exposure)	Category 2

**GHS Label elements, including precautionary statements****Emergency Overview**

<b>Signal word</b>	<b>Danger</b>	
<b>Hazard Statements</b>	Harmful if swallowed Causes serious eye damage May cause damage to organs through prolonged or repeated exposure	
		
<b>Appearance</b>	Multiple Colors	<b>Physical State</b> Solid containing liquid / Solid
<b>Precautionary Statements - Prevention</b>		<b>Odor</b> Characteristic

Wash face, hands and any exposed skin thoroughly after handling  
 Do not eat, drink or smoke when using this product  
 Wear protective gloves/protective clothing/eye protection/face protection  
 Do not breathe dust/fume/gas/mist/vapors/spray

**Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention

**Eyes**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

**Ingestion**

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

**Precautionary Statements - Storage**

None

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Hazard not otherwise classified (HNOC)**

NA

**Unknown Toxicity**

8% of the mixture consists of ingredient(s) of unknown toxicity

**Other information**

Toxic to aquatic life with long lasting effects.

**Interactions with Other Chemicals**

Use of alcoholic beverages may enhance toxic effects.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS No	Weight-%	Trade Secret
Ethylene Glycol	107-21-1	15-40%	*
Propylene Glycol monomethyl ether	107-98-2	3-7%	*
Methyl violet	8004-87-3	1-5%	*
Ethyl Alcohol	64-17-5	1-5%	*

\* The exact percentage (concentration) of composition has been withheld as a trade secret.

**4. FIRST AID MEASURES****First aid measures****General Advice**

In case of rupture: Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.

**Eye Contact** Rinse thoroughly with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Seek immediate medical attention/advice.

**Skin Contact**

Wash off immediately with soap and plenty of water. Get medical attention if irritation develops and persists.

**Inhalation** Remove to fresh air. Get medical attention immediately if symptoms occur.

**Ingestion** Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a physician.

**Self-protection of the first aider**

Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Wear personal protective clothing (see section 8).

**Most Important symptoms and effects, both acute and delayed****Most Important symptoms and effects**

Burning sensation

**Indication of any immediate medical attention and special treatment needed****Notes to Physician** Treat symptomatically**5. FIRE-FIGHTING MEASURES****Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment

**Unsuitable extinguishing media**

CAUTION: Use of water spray when fighting fire may be inefficient.

**Specific Hazards Arising from the Chemical**

No information available

**Hazardous Combustion Products**

Carbon oxides.

**Explosion Data****Sensitivity to Mechanical Impact** No.**Sensitivity to Static Discharge** No.**Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures****Personal precautions** Avoid contact with skin, eyes and clothing. Use personal protective equipment as required. Ensure adequate ventilation. Evacuate personnel to safe areas.**Other information** Refer to protective measures listed in Sections 7 and 8**Environmental Precautions****Environmental Precautions** Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage if safe to do so.**Methods and material for containment and cleaning up****Methods for Containment** Prevent further leakage or spillage if safe to do so.**Methods for cleaning up** Pick up and transfer to properly labeled containers. In case of rupture: Soak up with inert absorbent material.**7. HANDLING AND STORAGE****Precautions for safe handling****Handling** In case of rupture: Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product.**Conditions for safe storage, including any incompatibilities****Storage** Keep container tightly closed in a dry, cool and well-ventilated place. Keep out of reach of children.**Incompatible products** Strong oxidizing agents. Strong acids. Strong bases.**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Control parameters****Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Ethylene glycol 107-21-1	Ceiling: 100 mg/m <sup>3</sup> aerosol only	(vacated) Ceiling: 50 ppm Ceiling: 125 mg/m <sup>3</sup>	
Propylene glycol monomethyl ether 107-98-2	STEL: 100 ppm TWA: 50 ppm	(vacated) TWA: 100 ppm (vacated) TWA: 360 mg/m <sup>3</sup> (vacated) STEL: 150 ppm (vacated) STEL: 540 mg/m <sup>3</sup>	TWA: 100 ppm TWA: 360 mg/m <sup>3</sup> STEL: 150 ppm STEL: 540 mg/m <sup>3</sup>
Ethyl Alcohol 64-17-5	STEL: 1000 ppm	TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup> (vacated) TWA: 1000 ppm (vacated) TWA: 1900 mg/m <sup>3</sup>	IDLH: 3300 ppm 10% LEL TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup>

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits Immediately Dangerous to Life or Health

**Other Exposure Guidelines**

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992) See section 15 for national exposure control parameters

**Appropriate engineering controls****Engineering Measures**

Showers, Eyewash stations, Ventilation systems

**Individual protection measures, such as personal protective equipment****Eye/Face Protection**

None required for consumer use. If splashes are likely to occur: Wear safety glasses with side shields (or goggles).

**Skin and Body Protection**

None required for consumer use. Repeated or prolonged contact: Wear protective gloves and protective clothing.

**Respiratory Protection**

No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Physical State** Solid containing liquid, Solid

**Appearance** Multiple Colors

**Odor** Characteristic

**Color** No information available

**Odor Threshold** No information available

**Property****Values****Remarks Method**

<b>pH</b>	No data available	None known
<b>Melting/Freezing point</b>	No data available	None known
<b>Boiling point / boiling range</b>	No data available	None known
<b>Flash Point</b>	No data available	None known
<b>Evaporation Rate</b>	No data available	None known
<b>Flammability (solid, gas)</b>	No data available	None known
<b>Flammability Limit in Air</b>		
<b>Upper flammability limit</b>	No data available	
<b>Lower flammability limit</b>	No data available	
<b>Vapor pressure</b>	No data available	None known
<b>Vapor density</b>	No data available	None known
<b>Specific Gravity</b>	No data available	None known
<b>Water Solubility</b>	Soluble in water	None known
<b>Solubility in other solvents</b>	No data available	None known
<b>Partition coefficient:</b>	No data available	None known
<b>Autoignition temperature</b>	No data available	None known
<b>Decomposition temperature</b>	No data available	None known
<b>Kinematic viscosity</b>	No data available	None known
<b>Dynamic viscosity</b>	No data available	None known
<b>Explosive properties</b>	No data available	
<b>Oxidizing Properties</b>	No data available	

**Other Information**

**Softening Point** No data available

**VOC Content (%)** No data available

**Particle Size** No data available

**Particle Size Distribution**

**10. STABILITY AND REACTIVITY****Reactivity**

No data available

**Chemical Stability**

Stable under recommended storage conditions.

**Possibility of Hazardous Reactions**

None under normal processing.

**Hazardous Polymerization**

Hazardous polymerization does not occur.

**Conditions to avoid**

None known based on information supplied.

**Incompatible materials**

Strong oxidizing agents. Strong acids. Strong bases.

**Hazardous Decomposition Products**

Carbon oxides.

**11. TOXICOLOGICAL INFORMATION****Information on likely routes of exposure****Product Information**

Product does not present an acute toxicity hazard based on known or supplied information. In case of rupture:

**Inhalation** Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract.**Eye Contact** Specific test data for the substance or mixture is not available. Severely irritating to eyes. Causes serious eye damage. May cause burns. May cause irreversible damage to eyes.**Skin Contact** Specific test data for the substance or mixture is not available. May cause irritation. Prolonged contact may cause redness and irritation.**Ingestion** Specific test data for the substance or mixture is not available. Ingestion may cause irritation to mucous membranes. Ingestion may cause gastrointestinal irritation, nausea, vomiting, and diarrhea. May be harmful if swallowed. (based on components).**Component Information**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Ethylene glycol 107-21-1	> 3999 mg/kg (Rat)	–	–
Propylene glycol monomethyl ether 107-98-2	> 5199 mg/kg (Rat)	> 12.99 g/kg (Rabbit)	> 54.59 mg/L (Rat) 4h > 24 mg/L (Rat) 4h
Ethyl Alcohol 64-17-5	–	–	> 124.69 mg/L (Rat) 4h

**Information on toxicological effects****Symptoms** Erythema (skin redness). May cause blindness. Burning.**Delayed and immediate effects as well as chronic effects from short and long-term exposure****Sensitization** No information available.**Mutagenic Effects** No information available.**Carcinogenicity**

The table below indicates whether each agency has listed any ingredient as a carcinogen. The listed substance(s) has been shown to be carcinogenic in long-term studies only when consumed orally. This is not a relevant route of exposure for this product.

Chemical Name	ACGIH	IARC	NTP	OSHA
Ethyl Alcohol 64-17-5	A3	Group 2B	Known	X

**ACGIH (American Conference of Governmental Industrial Hygienists)***A3 - Animal Carcinogen***IARC (International Agency for Research on Cancer)***Group 1 - Carcinogenic to Humans***NTP (National Toxicology Program)***Known - Known Carcinogen***OSHA (Occupational Safety and Health Administration of the US Dept of Labor)***X - Present***Reproductive Toxicity**

No information available

**STOT - single exposure**

No information available

**STOT - repeated exposure**

Causes damage to organs through prolonged or repeated exposure. Based on classification criteria from the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200), this product has been determined to cause systemic target organ toxicity from chronic or repeated exposure. (STOT RE).

**Chronic Toxicity**

No known effect based on information supplied. Contains a known or suspected carcinogen. Contains a known or suspected reproductive toxin. The listed substance(s) has been shown to be carcinogenic and toxic to reproduction in long-term studies only when consumed orally. This is not a relevant route of exposure for this product.

**Target Organ Effects**

Eyes. Blood. Central Nervous System (CNS). Liver. Reproductive System. Respiratory System. Skin. Heart. Kidney.

**Aspiration Hazard**

No information available

**Numerical measures of toxicity Product Information****The following values are calculated based on chapter 3.1 of the GHS document****ATEmix (oral)**

1,450.00 mg/kg

**ATEmix (inhalation-dust/mist)**

808.70 mg/l

**12. ECOLOGICAL INFORMATION****Ecotoxicity**

The environmental impact of this product has not been fully investigated

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Ethylene glycol 107-21-1	96h EC50: 6500 - 13000 mg/L (Pseudokirchneriella subcapitata)	96h LC50: 41000 mg/L (Oncorhynchus mykiss) 96h LC50: 14-18 mL/L (Oncorhynchus mykiss) 96h LC50: 40761 mg/L (Oncorhynchus mykiss) 96h LC50: = 27540 mg/L (Lepomis macrochirus) 96h LC50: = 16000 mg/L (Poecilia reticulata) 96h LC50: 40000 - 60000 mg/L (Pimephales promelas)	EC50 > 10000 mg/L 16 h EC50: = 620 mg/L 30 min EC50: = 620.0 mg/L 30 min	48h EC50: = 46300 mg/L
Propylene glycol monomethyl ether 107-98-2		96h LC50: = 20.8 g/L (Pimephales promelas) 96h LC50: 4600 - 10000 mg/L (Leuciscus idus)		48h EC50: = 23300 mg/L

Ethyl Alcohol 64-17-5		96h LC50: > 100 mg/L (Pimephales promelas) 96h LC50: 13400 - 15100 mg/L (Pimephales promelas) 96h LC50: 12.0 - 16.0 mL/L (Oncorhynchus mykiss)	EC50 > 34634 mg/L 30 min EC50: = 35470 mg/L 5 min	48h LC50: 9268 - 14221 mg/L 48h EC50: = 2 mg/L 24h EC50: = 10800 mg/L
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**Persistence and Degradability**

No information available.

**Bioaccumulation**

Chemical Name	Log Pow
Ethylene glycol 107-21-1	-1.93
Propylene glycol monomethyl ether 107-98-2	-0.437
Ethyl Alcohol 64-17-5	-0.32

**Other adverse effects**

No information available.

**13. DISPOSAL CONSIDERATIONS****Waste treatment methods****Disposal methods**

This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

**Contaminated Packaging**

Dispose of contents/containers in accordance with local regulations.

This product contains one or more substances that are listed with the State of California as a hazardous waste

Chemical Name	California Hazardous Waste
Ethyl Alcohol 64-17-5	Toxic Ignitable

**14. TRANSPORT INFORMATION**

<b>DOT</b>	Not Regulated
<b>TDG</b>	Not Regulated
<b>MEX</b>	Not Regulated
<b>ICAO</b>	Not Regulated
<b>IATA</b>	Not Regulated
<b>IMDG/IMO</b>	Not Regulated
<b>RID</b>	Not Regulated
<b>ADR</b>	Not Regulated
<b>AND</b>	Not Regulated

**15. REGULATORY INFORMATION****International Inventories**

TSCA	Complies
DSL	All components are listed either on the DSL or NDSL

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List**US Federal Regulations**

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	CAS No	Weight - %	SARA 313 - Threshold Values
Ethylene glycol	107-21-1	15-40%	1.0

**SARA 311/312 Hazard Categories**

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

**CWA (Clean Water Act)**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

**CERCLA**

This material, as supplied, contains one or more substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQ	RQ
Ethylene glycol 107-21-1	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ

**US State Regulations****U.S. State Right-to-Know Regulations**

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Rhode Island	Illinois
Ethylene glycol 107-21-1	X	X	X	X	X
Propylene glycol monomethyl ether 107-98-2	X	X	X		
Ethyl Alcohol 64-17-5		X			

**International Regulations****Mexico****National Occupational exposure limits**

Component	Carcinogen Status	Exposure Limits
Ethylene glycol 107-21-1		Mexico: Ceiling 100 mg/m3
Ethyl Alcohol 64-17-5		Mexico: TWA 1000 ppm Mexico: TWA - 1900 mg/m3

Mexico - Occupational Exposure Limits - Carcinogens

**Canada**



**WHMIS Hazard Class**

Non-controlled

**16. OTHER INFORMATION**

<b>NFPA</b>	<b>Health Hazards</b>	<b>1</b>	<b>Flammability 0</b>	<b>Instability</b>	<b>0</b>	<b>Physical and Chemical Hazards - Personal Protection X</b>
<b>HMIS</b>	<b>Health Hazards</b>	<b>1*</b>	<b>Flammability 0</b>	<b>Physical Hazard</b>	<b>0</b>	

**Chronic Hazard Star Legend** \* = Chronic Health Hazard**Disclaimer**

*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.*

**End of Safety Data Sheet**