

# Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 07/31/2018

Reviewed on 12/29/2017

## 1 Identification

- **Product Identifier**

- **Trade Name: NuSolv D6368**

- **Product Number: ng-NSD6368**

- **Relevant identified uses of the substance or mixture and uses advised against:**

For professional use only.

- **Product Description:**

NuSolv D6368 is a stabilized, non-flammable n-Propyl Bromide solvent blend use for degreasing, metal cleaning and flux removal. Being properly stabilized, NuSolv D6368 is unreactive toward metals such as Aluminum, Titanium, and Brass. NuSolv D6368 is hydrolytically stable in the presence of water contamination, which is a common problem in vapor degreasing. NuSolv D6368 conforms to Table 1 of ASTM D6368-06.

- **Application of the substance / the mixture:** Industry specific application.

- **Details of the Supplier of the Safety Data Sheet:**

- **Manufacturer/Supplier:**

NuGeneration Technologies, LLC (dba NuGenTec)

1155 Park Avenue, Emeryville, CA 94608

salesteam@nugentec.com

1-888-996-8436 or 1-707-820-4080 for product information

www.nugentec.com

- **Emergency telephone number:**

PERS Emergency Response: Domestic and Canada - 1-800-633-8253, International 1-801-629-0667

## 2 Hazard(s) Identification

- **Classification of the substance or mixture:**



Health hazard

Carc. 2 H351 Suspected of causing cancer.

Repr. 1A H360 May damage fertility or the unborn child.

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.



Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

STOT SE 3 H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.

- **Label elements:**

- **GHS label elements**

The substance is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms:**



GHS07 GHS08

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**Trade Name: NuSolv D6368**

· **Signal word:** *Danger*

· **Hazard-determining components of labeling:**

*n-Propyl Bromide*

*1-propanol*

· **Hazard statements:**

H315 *Causes skin irritation.*

H319 *Causes serious eye irritation.*

H351 *Suspected of causing cancer.*

H360 *May damage fertility or the unborn child.*

H335-H336 *May cause respiratory irritation. May cause drowsiness or dizziness.*

H373 *May cause damage to organs through prolonged or repeated exposure.*

· **Precautionary statements:**

P201 *Obtain special instructions before use.*

P202 *Do not handle until all safety precautions have been read and understood.*

P260 *Do not breathe dust/fume/gas/mist/vapors/spray.*

P261 *Avoid breathing dust/fume/gas/mist/vapors/spray.*

P264 *Wash thoroughly after handling.*

P271 *Use only outdoors or in a well-ventilated area.*

P280 *Wear protective gloves/protective clothing/eye protection/face protection.*

P302+P352 *If on skin: Wash with plenty of water.*

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.*

P308+P313 *IF exposed or concerned: Get medical advice/attention.*

P312 *Call a poison center/doctor if you feel unwell.*

P321 *Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).*

P314 *Get medical advice/attention if you feel unwell.*

P362+P364 *Take off contaminated clothing and wash it before reuse.*

P332+P313 *If skin irritation occurs: Get medical advice/attention.*

P337+P313 *If eye irritation persists: Get medical advice/attention.*

P403+P233 *Store in a well-ventilated place. Keep container tightly closed.*

P405 *Store locked up.*

P501 *Dispose of contents/container in accordance with local/regional/national/international regulations.*

· **Unknown acute toxicity:**

*This value refers to knowledge of known, established toxicological or ecotoxicological values.*

· **Classification system:** *NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme*

· **NFPA ratings (scale 0 - 4)**



*Health = 2*

*Fire = 3*

*Reactivity = 0*

· **HMIS-ratings (scale 0 - 4)**



*Health = \*2*

*Fire = 3*

*Physical Hazard = 0*

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· **Hazard(s) not otherwise classified (HNOC):** None known

### 3 Composition/Information on Ingredients

- **Chemical characterization: Mixtures**
- **Description:** Mixture of substances listed below with non-hazardous additions.

· **Dangerous Components:**

CAS: 106-94-5 RTECS: TX 4110000	n-Propyl Bromide ⚠ Flam. Liq. 2, H225; ⚠ Carc. 2, H351; Repr. 1B, H360; STOT RE 2, H373; ⚠ Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335-H336	90-99%
	1-propanol ⚠ Flam. Liq. 2, H225; ⚠ Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302; STOT SE 3, H336	2-12%
CAS: 106-88-7 RTECS: EK 3675000	1,2-epoxybutane ⚠ Flam. Liq. 2, H225; ⚠ Carc. 2, H351; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335	≤ 2.5%
CAS: 75-65-0 RTECS: EO 1925000	tert-Butanol ⚠ Flam. Liq. 2, H225; ⚠ Acute Tox. 4, H332; Eye Irrit. 2A, H319; STOT SE 3, H335	≤ 2.5%

· **Additional information:**

The exact percentages of the ingredients of this mixture are considered to be proprietary and are withheld in accordance with the provisions of paragraph (i) of §1910.1200 of 29 CFR 1910.1200 Trade Secrets.

### 4 First-Aid Measures

- **Description of first aid measures**
- **General information:**  
Symptoms of poisoning may occur after exposure to dust, fumes or particulates; seek medical attention if feeling unwell.
- **After inhalation:**  
Supply fresh air. If required, provide artificial respiration. Consult doctor if symptoms persist. In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:**  
Immediately wash with water and soap and rinse thoroughly. If skin irritation occurs, consult a doctor.
- **After eye contact:**  
Rinse opened eye for at least 15 minutes under running water. If symptoms persist, consult a doctor. If easy to do so, remove contact lenses if worn. If eye irritation occurs, consult a doctor.
- **After swallowing:**  
Rinse out mouth and then drink plenty of water. Do not induce vomiting without medical advice. If vomiting does occur, repeat fluid administration. Seek immediate medical advice.

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- **Information for doctor**
- **Most important symptoms and effects, both acute and delayed:**  
No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed:**  
No further relevant information available.

### 5 Fire-Fighting Measures

- **Extinguishing media**
- **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards arising from the substance or mixture:** No further relevant information available.
- **Advice for firefighters**
- **Special protective equipment for firefighters:**  
As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear to prevent contact with skin and eyes.

### 6 Accidental Release Measures

- **Personal precautions, protective equipment and emergency procedures:**  
Ensure adequate ventilation.  
Keep away from ignition sources  
Use respiratory protective device against the effects of fumes/dust/aerosol.  
Do not breathe vapor.  
Avoid contact with skin, eyes and clothing.  
Keep people at a distance and stay upwind.  
Treat any fumes as toxic.  
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:** Do not allow to enter sewers/surface or ground water.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (i.e. sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to section 13.  
Ensure adequate ventilation.  
Dispose of the collected material according to regulations.
- **Reference to other sections:**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.
- **Protective Action Criteria for Chemicals**

· **PAC-1:**

106-94-5	n-Propyl Bromide	0.3 ppm
	1-propanol	250 ppm
75-65-0	tert-Butanol	150 ppm
106-88-7	1,2-epoxybutane	72 ppm

· **PAC-2:**

106-94-5	n-Propyl Bromide	120 ppm
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	1-propanol	670 ppm
75-65-0	tert-Butanol	1,300 ppm
106-88-7	1,2-epoxybutane	140 ppm
<b>• PAC-3:</b>		
106-94-5	n-Propyl Bromide	700 ppm
	1-propanol	4000* ppm
75-65-0	tert-Butanol	8000* ppm
106-88-7	1,2-epoxybutane	330 ppm

### 7 Handling and Storage

- **Handling**
- **Precautions for safe handling:**  
*Ensure good ventilation/exhaustion at the workplace.  
 Open and handle receptacle with care.  
 Prevent formation of aerosols.*
- **Information about protection against explosions and fires:**  
*Protect against electrostatic charges.  
 Keep protective respiratory device available.*
- **Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and receptacles:** *No special requirements.*
- **Information about storage in one common storage facility:** *Not required.*
- **Further information about storage conditions:** *Keep receptacle tightly sealed.*
- **Specific end use(s):** *No further relevant information available.*

### 8 Exposure Controls/Personal Protection

- **Additional information about design of technical systems:** *No further data; see section 7.*
- **Control parameters:**  
*All ventilation should be designed in accordance with OSHA standard (29 CFR 1910.94). Use mechanical (general) ventilation for storage areas. Use appropriate ventilation as required to keep Exposure Limits in Air below TLV & PEL limits.*
- **Components with occupational exposure limits:**  
*The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.  
 At this time, the remaining constituent has no known exposure limits.*

<b>106-94-5 n-Propyl Bromide</b>	
TLV	Long-term value: 0.5 mg/m <sup>3</sup> , 0.1 ppm
<b>1-propanol</b>	
PEL	Long-term value: 500 mg/m <sup>3</sup> , 200 ppm
REL	Short-term value: 625 mg/m <sup>3</sup> , 250 ppm Long-term value: 500 mg/m <sup>3</sup> , 200 ppm Skin

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**Trade Name: NuSolv D6368**

TLV	Long-term value: 246 mg/m <sup>3</sup> , 100 ppm
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**106-88-7 1,2-epoxybutane**

WEEL	Long-term value: 2 ppm
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· **Additional information:** The lists that were valid during the creation of this SDS were used as basis.

· **Exposure controls:**

· **Personal protective equipment**

· **General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing and wash before reuse.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Avoid contact with the eyes and skin.

· **Breathing equipment:**



Suitable respiratory protective device recommended.

· **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Select glove material based on penetration times, rates of diffusion and degradation.

· **Material of gloves:**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material:**

The exact break-through time has to be determined and observed by the manufacturer of the protective gloves.

· **Eye protection:**



Safety glasses

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**· Body protection:**


Protective work clothing

### 9 Physical and Chemical Properties

**· Information on basic physical and chemical properties**
**· General Information**
**· Appearance:**

<b>Form:</b>	Liquid
<b>Color:</b>	Clear, colorless

<b>· Odour:</b>	Characteristic
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<b>· Odor threshold:</b>	Not determined.
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<b>· pH-value:</b>	Not applicable.
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**· Change in condition**

<b>Melting point/Melting range:</b>	-110 °C (-166 °F)
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<b>Boiling point/Boiling range:</b>	71 °C (159.8 °F)
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<b>· Flash point:</b>	None
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<b>· Flammability (solid, gaseous):</b>	Product may become flammable during use.
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<b>· Ignition temperature:</b>	490 °C (914 °F)
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<b>· Decomposition temperature:</b>	Not determined.
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<b>· Auto igniting:</b>	Product is not self-igniting.
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<b>· Danger of explosion:</b>	Product is not explosive. However, formation of explosive air-vapor mixtures are possible.
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**· Explosion limits:**

<b>Lower:</b>	~3.8 Vol %
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<b>Upper:</b>	~7.5 Vol %
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<b>· Vapor pressure @ 20 °C (68 °F):</b>	139 mm Hg
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<b>· Density @ 20 °C (68 °F):</b>	1.31 g/cm <sup>3</sup> (10.932 lbs/gal)
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<b>· Relative density:</b>	Not determined.
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<b>· Vapor density:</b>	Not determined.
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<b>· Evaporation rate @ 20 °C (68 °F):</b>	~4 (Butyl Acetate = 1)
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**· Solubility in / Miscibility with:**

<b>Water @ 20 °C (68 °F):</b>	2.5 g/l
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<b>· Partition coefficient (n-octanol/water):</b>	Not determined.
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**· Viscosity:**

<b>Dynamic:</b>	Not determined.
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<b>Kinematic:</b>	Not determined.
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· **Other information:** No further relevant information available.

### 10 Stability and Reactivity

- **Reactivity:** No further relevant information available.
- **Chemical stability:** Stable under normal conditions.
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **Possibility of hazardous reactions:** No dangerous reactions known.
- **Conditions to avoid:** No further relevant information available.
- **Incompatible materials:**  
Strong acids, strong bases, strong oxidizing agents, strong reducing agents, acid chlorides, acid anhydrides and Alkali metals.
- **Hazardous decomposition products:** No dangerous decomposition products known.

### 11 Toxicological Information

- **Information on toxicological effects:**
- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

**106-94-5 n-Propyl Bromide**

Inhalative	LC50/4 h	253 mg/l (Rat)
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**1-propanol**

Oral	LD50	1870 mg/kg (Rat)
Dermal	LD50	5040 mg/kg (Rabbit)

**106-88-7 1,2-epoxybutane**

Oral	LD50	500 mg/kg (Rat)
Dermal	LD50	2100 mg/kg (Rabbit)

- **Primary irritant effect:**
- **On the skin:** Irritant to skin and mucous membranes.
- **On the eye:** Irritating effect.
- **Additional toxicological information:**  
The product shows the following dangers according to internally approved calculation methods for preparations:  
Irritant
- **Carcinogenic categories:**
- **IARC (International Agency for Research on Cancer):**  
Group 1 - Carcinogenic to humans  
Group 2A - Probably carcinogenic to humans  
Group 2B - Possibly carcinogenic to humans  
Group 3 - Not classifiable as to its carcinogenicity to humans  
Group 4 - Probably not carcinogenic to humans

106-88-7	1,2-epoxybutane
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**· NTP (National Toxicology Program):**

106-94-5 n-Propyl Bromide

R

**· OSHA-Ca (Occupational Safety & Health Administration):**

None of the ingredients are listed.

### 12 Ecological Information

- **Toxicity:**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability:** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential:** No further relevant information available.
- **Mobility in soil:** No further relevant information available.
- **Additional ecological information:**
- **General notes:**  
Do not allow product to reach ground water, water course or sewage system.  
Danger to drinking water if even small quantities leak into the ground.
- **Results of PBT and vPvB assessment:**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects:** No further relevant information available.

### 13 Disposal Considerations

- **Waste treatment methods**
- **Recommendation:**  
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.  
Observe all federal, state and local environmental regulations when disposing of this material.
- **Uncleaned packaging**
- **Recommendation:** Dispose of as unused product.

### 14 Transport Information

- |   |                        |
|---|------------------------|
| <ul style="list-style-type: none"> <li>· <b>UN-Number:</b></li> <li>· <b>DOT, ADR/ADN, ADN, IMDG, IATA</b></li> </ul>   | Non-Regulated Material |
| <ul style="list-style-type: none"> <li>· <b>UN proper shipping name:</b></li> <li>· <b>DOT, ADR/ADN, ADN, IMDG, IATA</b></li> </ul>                             | Non-Regulated Material |
| <ul style="list-style-type: none"> <li>· <b>Transport hazard class(es):</b></li> <li>· <b>DOT, ADR/ADN, ADN, IMDG, IATA</b></li> <li>· <b>Class:</b></li> </ul> | Non-Regulated Material |
| <ul style="list-style-type: none"> <li>· <b>Packing group:</b></li> <li>· <b>DOT, ADR/ADN, IMDG, IATA</b></li> </ul>  | Non-Regulated Material |

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- |   |                        |
|---|------------------------|
| <b>· Environmental hazards:</b>   | Not applicable.        |
| <b>· Special precautions for user:</b>  | Not applicable.        |
| <b>· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:</b> | Not applicable.        |
| <b>· UN "Model Regulation":</b>   | Non-Regulated Material |

### 15 Regulatory Information

- Safety, health and environmental regulations/legislation specific for the substance or mixture:
- SARA (Superfund Amendments and Reauthorization):

- Section 355 (extremely hazardous substances):

None of the ingredients are listed.

- Section 313 (Specific toxic chemical listings):

75-65-0 tert-Butanol

106-88-7 1,2-epoxybutane

- TSCA (Toxic Substances Control Act):

All ingredients are listed or exempt from listing.

- California Proposition 65:

- Chemicals known to cause cancer:

106-94-5 n-Propyl Bromide

- Chemicals known to cause reproductive toxicity for females:

106-94-5 n-Propyl Bromide

- Chemicals known to cause reproductive toxicity for males:

106-94-5 n-Propyl Bromide

- Chemicals known to cause developmental toxicity:

106-94-5 n-Propyl Bromide

- New Jersey Right-to-Know List:

1-propanol

75-65-0 tert-Butanol

106-88-7 1,2-epoxybutane

- New Jersey Special Hazardous Substance List:

1-propanol

F3

75-65-0 tert-Butanol

F3

106-88-7 1,2-epoxybutane

CA, MU, F3, R2

- Pennsylvania Right-to-Know List:

All ingredients are listed.

- Pennsylvania Special Hazardous Substance List:

75-65-0 tert-Butanol

E

106-88-7 1,2-epoxybutane

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· **Carcinogenic categories:**

· **EPA (Environmental Protection Agency):**

None of the ingredients are listed.

· **TLV (Threshold Limit Value established by ACGIH):**

	1-propanol	A4
75-65-0	tert-Butanol	A4

· **NIOSH-Ca (National Institute for Occupational Safety and Health):**

None of the ingredients are listed.

· **GHS label elements**

The substance is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms:**



GHS07 GHS08

· **Signal word:** Danger

· **Hazard-determining components of labeling:**

n-Propyl Bromide  
1-propanol

· **Hazard statements:**

- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H351 Suspected of causing cancer.
- H360 May damage fertility or the unborn child.
- H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.
- H373 May cause damage to organs through prolonged or repeated exposure.

· **Precautionary statements:**

- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P260 Do not breathe dust/fume/gas/mist/vapors/spray.
- P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
- P264 Wash thoroughly after handling.
- P271 Use only outdoors or in a well-ventilated area.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P302+P352 If on skin: Wash with plenty of water.
- 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.
- P308+P313 IF exposed or concerned: Get medical advice/attention.
- P312 Call a poison center/doctor if you feel unwell.
- P321 Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).
- P314 Get medical advice/attention if you feel unwell.
- P362+P364 Take off contaminated clothing and wash it before reuse.
- P332+P313 If skin irritation occurs: Get medical advice/attention.
- P337+P313 If eye irritation persists: Get medical advice/attention.

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**Trade Name: NuSolv D6368**

P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
 P405 Store locked up.  
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **National regulations:**

None of the ingredients are listed.

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### 16 Other Information

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

· **Date of preparation / last revision:** 07/31/2018 / -

· **Abbreviations and acronyms:**

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road  
 ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
 IMDG: International Maritime Code for Dangerous Goods  
 DOT: US Department of Transportation  
 IATA: International Air Transport Association  
 ACGIH: American Conference of Governmental Industrial Hygienists  
 EINECS: European Inventory of Existing Commercial Chemical Substances  
 ELINCS: European List of Notified Chemical Substances  
 CAS: Chemical Abstracts Service (division of the American Chemical Society)  
 NFPA: National Fire Protection Association (USA)  
 HMIS: Hazardous Materials Identification System (USA)  
 LC50: Lethal concentration, 50 percent  
 LD50: Lethal dose, 50 percent  
 PBT: Persistent, Bioaccumulative and Toxic  
 vPvB: very Persistent and very Bioaccumulative  
 NIOSH: National Institute for Occupational Safety and Health  
 OSHA: Occupational Safety & Health Administration  
 TLV: Threshold Limit Value  
 PEL: Permissible Exposure Limit  
 REL: Recommended Exposure Limit  
 Flam. Liq. 2: Flammable liquids – Category 2  
 Acute Tox. 4: Acute toxicity – Category 4  
 Skin Irrit. 2: Skin corrosion/irritation – Category 2  
 Eye Dam. 1: Serious eye damage/eye irritation – Category 1  
 Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A  
 Carc. 2: Carcinogenicity – Category 2  
 Repr. 1A: Reproductive toxicity – Category 1A  
 Repr. 1B: Reproductive toxicity – Category 1B  
 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3  
 STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

· **\* Data compared to the previous version altered.**

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