

# Like Nu Sprue Wax

## 1. Identification of the substance/mixture and of the company/undertaking

- 1.1 Product identifier  
 Product name : **Like Nu Sprue Wax**
- 1.2 Relevant identified uses of the substance or mixture and uses advised against  
 Identified uses : Manufacture of wax sprues in the precision investment casting process.  
 Uses advised against : None known
- 1.3 Details of the supplier of the safety data sheet  
 Manufacturer/supplier : M. Argüeso & Co., Inc. (D.B.A. Paramelt)  
 2817 McCracken Street  
 Muskegon, MI 49441, USA  
 Tel: (+1) 231 759 7304  
 Fax: (+1) 231 759 7570
- Manufacturing facility : Paramelt  
 12651 Elmwood Avenue  
 Cleveland, OH 44111, USA  
 Tel: (+1) 216 252 4122  
 Fax: (+1) 216 252 5639
- SDS prepared by : Quality Manager  
 E-mail : [EHS@argueso.com](mailto:EHS@argueso.com)
- 1.4 Emergency telephone number  
 For emergency advice : CHEMTREC (Tel: 800 424 9300)  
 Availability : 24 hours

## 2. Hazards identification

- 2.1 Classification of the substance or mixture  
 GHS classification : Not classified as dangerous under GHS/OSHA criteria
- Hazard summary:  
 Inhalation : None known  
 Eye contact : Molten material will produce thermal burns.  
 Skin contact : Molten material will produce thermal burns  
 Ingestion : None known  
 Other health effects : None known  
 Environmental hazards : None known
- 2.2 Label elements : None known
- 2.3 Other hazards : None known

## 3. Composition information

- Description : Mixture of waxes, resins, polymers & oil soluble dye
- Classification : As supplied, the component(s) listed below can present physical or health hazards;

CAS No	%, w/w	Name	Classification according to 21 CFR 1910.1200
<b>The following are included because of country workplace exposure limits – see section 8.1.</b>			
8002-74-2	10-80	Paraffin wax	Not classified



## 4. First-aid measures

### 4.1 Description of first aid measures

- Inhalation : Exposure to fumes, vapors or smoke of overheated molten product handled in confined areas can result in irritation of the respiratory tracts, and possible discomfort to sensitive individuals. Move to fresh air. Treat symptomatically. Get medical attention if symptoms persist.
- Eye contact : Exposure to fumes, vapors or smoke of overheated product can result in irritation to eyes. Any material that contacts the eye should be washed out immediately with water. If easy to do, remove contact lenses. Get medical attention if symptoms persist. If molten material contacts the eye, immediately flush with plenty of running water for at least 15 minutes, holding eyelid open. Do not remove adhering material. Seek medical attention immediately.
- Skin contact : Wash with soap and water. Molten product – Cool affected areas with running water to remove heat. In general, do not remove adhering material - it may be necessary to cut through material surrounding a limb to prevent a tourniquet effect. Seek medical attention urgently.
- Ingestion : Do not induce vomiting. Seek medical attention.

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

Burns should be treated as thermal burns. The material will come off as healing occurs; therefore, immediate removal from skin is not necessary

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

- Hazards : Contact with molten product may cause severe burns to skin and eyes.
- Treatment : Treat symptomatically.

## 5. Fire-fighting measures

### 5.1 Extinguishing media

- Suitable extinguishing media : Water mist, dry chemical, carbon dioxide or foam.
- Unsuitable extinguishing media : Do not use a solid water stream as it may scatter and spread fire.

### 5.2 Special hazards arising from the substance or mixture

Watch footing on floors and stairs because of possible spreading of molten material. Material can create slippery conditions. In case of fire hazardous decomposition products may be produced such as: Carbon dioxide, carbon monoxide and complex hydrocarbons. As with most solid organic compounds, a high dust concentration of this product may form an explosive atmosphere, subject to ignition by heat and static discharge. This is an unlikely scenario but users should be aware of the risk.

### 5.3 Advice for firefighters

In the event of fire and/or explosion do not breathe fumes. Wear self-contained breathing apparatus and protective suit.

## 6. Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Wear appropriate personal protective equipment.

### 6.2 Environmental precautions

Should not be released into the environment. Prevent product from entering drains.

## 6.3 Methods and material for containment and cleaning up

Solid product : Sweep up the spilled material. If it is clean, place in a suitable container for use. If it is contaminated, collect in a suitable container for disposal. Note that pelletized product can travel some distance when spilled. Prevent the spillage entering drainage channels.

Molten product : Wear appropriate personal protective equipment – boots, eye protection & heat resistant gloves. Attempt to contain the spill by making dams with sand or earth. A water mist can be used to cool a spill but take extreme care when doing so. Allow the spill to solidify before collecting the material for disposal. Do not let molten product enter drainage channels.

### Notification procedures

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

## 7. Handling and storage

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### 7.1 Precautions for safe handling

Use only in a well ventilated area and avoid breathing fumes and dust (dust is unlikely). Avoid skin and eye contact, especially with the molten material. Do not eat, drink or smoke whilst using this product.

### 7.2 Conditions for safe storage, including any incompatibilities

Keep product closed in its original packaging until used. Keep dry; avoid temperature extremes (keep between 5 & 30°C / 41 & 86°F) and direct sunlight. Keep away from sources of ignition, oxidizing agents and other chemicals.

### 7.3 Specific end use(s)

Avoid heating above 100°C (212°F) during the normal investment casting process (excepting dewax operations). Do not let molten product stand unused in melt tanks and injection machines. Stir product at all times.

## 8. Exposure controls and personal protection

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### 8.1 Control parameters

Occupational exposure limit values : The following may be released from the product in the molten state.

Workplace exposure limits : The following values were obtained from:  
<http://limitvalue.ifa.dguv.de>

Country	Long term exposure limit (8 hr. TWA reference period)	Short term exposure limit (15 minute reference period)	Notes
<b>Substance: Paraffin Wax Fume</b>			
<b>CAS #: 8002-74-2</b>			
Australia	2 mg/m <sup>3</sup>		
Canada - Ontario	2 mg/m <sup>3</sup>		
Canada - Québec	2 mg/m <sup>3</sup>		
New Zealand	2 mg/m <sup>3</sup>		
People's Republic of china	2 mg/m <sup>3</sup>	4 mg/m <sup>3</sup>	STEL 15 minute average value
Singapore	2 mg/m <sup>3</sup>		
South Korea	2 mg/m <sup>3</sup>		
USA - NIOSH	2 mg/m <sup>3</sup>		
<b>Exposure to the following is unlikely given that the product form and its intended application.</b>			
<b>Substance: Dust – respirable, Or, Particulates, not otherwise regulated (respirable fraction)</b>			
<b>CAS #:</b>			
USA - OSHA	5 mg/m <sup>3</sup>		Nuisance dust
USA - NIOSH	5 mg/m <sup>3</sup>		
<b>Exposure to the following is unlikely given that the product form and its intended application.</b>			
<b>Substance: Dust – Total</b>			
<b>CAS #:</b>			
USA - OSHA	15 mg/m <sup>3</sup>		Nuisance dust

## 8.2 Exposure controls

Appropriate engineering controls

Good general ventilation should be used. If applicable, use local exhaust ventilation or other engineering controls to maintain airborne levels of dust (solid product), fume or vapor (molten product) below recommended exposure limits.

Individual protection measures, such as personal protective equipment

Eyes & Face

: Appropriate eye protection should be worn when handling slabs and pellets, when injecting the product and when assembling patterns. A full face shield is recommended for operations involving the transfer of molten product, i.e. refilling press reservoirs

Skin

: Solid product – cotton gloves. Molten product – Impervious heat protective gloves.

Respiratory

: If engineering controls do not maintain airborne concentrations below recommended exposure limits an approved respirator must be worn. Respirator type: Air-purifying respirator with an appropriate air-purifying filter, cartridge or canister.

Hygiene

: A good standard of industrial hygiene should be practiced when using this product. Wash hands thoroughly before eating, drinking or smoking. Contaminated clothing should be laundered before reuse.

Environmental

: Exhaust air may need to be cleaned by scrubbers or filters to reduce environmental contamination.

## 9. Physical and chemical properties

Physical state at 20°C.	: Waxy solid	
Color	: Green	
Odor	: Waxy, characteristic	
Odor threshold	: Not determined	
pH	: No data available	
Boiling point	: No data available	
Melting point (R&B)	: approx. 66.4°C. (151.6°F.)	
Flash point	: >185°C (365°F), Cleveland Open Cup.	
Evaporation rate	: Not determined	
Flammability (solid, gas)	: No data available	
Upper/lower flammability	: No data available	
Vapor pressure	: No data available	
Vapor density	: No data available	
Specific gravity	: approx. 0.942	(20°C.)
Solubility in water	: Insoluble	
Solubility in common organic solvents	: Soluble	
Partial coefficient: n-octanol/water	: No data available	
Auto-ignition temperature	: No data available	
Decomposition temperature	: No data available	
Viscosity (BVI - Thermosel)	: approx. 355 cPs	(150°F.)
Explosive properties	: No data available	
Oxidizing properties	: No data available	

## 10. Stability and reactivity

Reactivity	: None known.
Stability	: Stable as supplied
Possibility of hazardous reactions	: None known
Conditions to avoid	: The product is organic, however, and will be subject to surface oxidation. Avoid holding the product in the molten state when not in use. Excessive thermal exposure will degrade the product.
Incompatible materials	: Strong oxidizing agents.
Hazardous decomposition products	: Carbon dioxide, carbon monoxide.

## 11. Toxicological information

### 11.1 Information on toxicological effects

Acute Exposure	
Inhalation	: Wax fumes have been reported to be irritating to the respiratory tract, especially to sensitized persons.
Eye contact	: Molten product will cause thermal burns on contact with the eyes.
Skin contact	: Molten product will cause thermal burns on contact with the skin.
Ingestion Use	: No data available
Skin corrosion/irritation	: No data available.
Serious eye damage/irritation	: No data available.

Respiratory or skin sensitisation	: No data available.
Germ cell mutagenicity	: No data available.
Carcinogenicity	: No data available.
Toxicity for reproduction	: No data available.
Summary of evaluation of the CMR properties	: No data available.
STOT – single exposure	: No data available.
STOT – repeated exposure	: No data available.
Aspiration hazard	: No data available

## 12. Ecological information

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No specific ecological information has been determined for this product. However, the product is insoluble in water and should not pose a serious threat to the environment.

12.1 Toxicity	: No data available
12.2 Persistence and degradability	: No data available
12.3 Bioaccumulative potential	: No data available
12.4 Mobility in soil	: No data available
12.5 Results of PBT and vPvB assessment	: No data available
12.6 Other adverse effects	: No data available

Users of the product should, however, ensure that it is stored, handled and disposed of in such a manner that it is not released to the environment. Spent material from the flash fire furnace or autoclave must therefore be stored in such a manner as to prevent environmental contamination, either by solid product or rain water run-off from it.

## 13. Disposal considerations

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### 13.1 Waste treatment methods

General information	: Dispose of used product, unwanted product and related packaging in strict accordance with waste disposal legislation and any local authority requirements.
Disposal methods	: Wherever possible, spent material should be returned to the manufacturer, or other qualified reprocessor, for reclamation

## 14. Transportation information

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ADR/RID	: Solid forms of this product are not regulated.
IMDG	: Solid forms of this product are not regulated.
IATA	: Solid forms of this product are not regulated.

## 15. Regulatory information

### 15.1 US Federal regulations

TSCA	: All components of this product are listed or exempted from listing on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.
CWA	: Plastic pellets are defined by the US EPA under the Clean Water Act (40CFR122.26) as a “significant material” which requires any industrial plant that may expose pellets to storm water to secure a storm water permit. Violations of the rule carry the same penalties as other Clean Water Act violations. Pellets found in storm water runoff are subject to EPA regulations with the potential for substantial fines and penalties.
EPCRA section 302	: This material contains no extremely hazardous substances.
SARA 313	: No reportable chemicals.
SARA 311/312	: Not applicable

### 15.2 US State regulations

California Proposition 65	: Carcinogens: None Adverse reproductive effects: None
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## 16. Other information

### NFPA (National Fire Protection Association)

NFPA health hazard	: 1
NFPA fire hazard	: 1
NFPA reactivity	: 0

### HMIS III Rating

Health	: 1
Flammability	: 1
Physical Hazard	: 0
Personal Protection	: See section 8 of SDS

Revision information : New SDS

Key literature references and sources for data :  
 Supplier MSDS

ECHA –Guidance on the compilation of safety data sheets, Version 2.0, Dated December 2013  
 GESTIS - International limit values for chemical agents database (English)  
 GESTIS – database on hazardous substances (English)  
 21 CFR 1910  
 ANSI Z400.1/Z129.1-2010  
 Other internet sources.

Full text of the H-statements referred to under section 3:  
 Not classified.

Training information : No data available.



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