# **Material Safety Data Sheet**



Static Free™ Plast-N-Glas®

## 1. Product and company identification

Product name : Static Free™ Plast-N-Glas®

Supplier : ITW Chemtronics

8125 Cobb Center Drive Kennesaw, GA 30152

Tel. 770-424-4888 or toll free 800-645-5244

Synonym : ES1668

Trade name : Static Free™ Plast-N-Glas®

Manufacturer : ITW Chemtronics

8125 Cobb Center Drive Kennesaw, GA 30152

Tel. 770-424-4888 or toll free 800-645-5244

**Code** : ES1668, ES1668C

 MSDS #
 : 0908

 Validation date
 : 6/7/2013.

 Print date
 : 6/7/2013.

In case of emergency : Chemtrec - 1-800-424-9300 or collect 703-527-3887

24/7

Product type : Aerosol.

### 2. Hazards identification

**Emergency overview** 

Physical state : Liquid.

Color : Colorless.

Odor : Floral. [Slight]

Signal word : WARNING!

Hazard statements : CAUSES EYE IRRITATION. MAY CAUSE SKIN IRRITATION. CONTAINS MATERIAL

THAT MAY CAUSE TARGET ORGAN DAMAGE, BASED ON ANIMAL DATA.

**Precautionary measures**: Do not breathe vapor or mist. Do not eat, drink or smoke when using this product.

Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard

(29 CFR 1910.1200).

Potential acute health effects

Inhalation : Harmful by inhalation. At very high concentrations, can displace the normal air and

cause suffocation from lack of oxygen.

Ingestion : Harmful if swallowed. Irritating to mouth, throat and stomach.

Skin : Slightly irritating to the skin.

**Eyes**: Severely irritating to eyes. Risk of serious damage to eyes.

Potential chronic health effects

Chronic effects : Contains material that may cause target organ damage, based on animal data.

Carcinogenicity: No known significant effects or critical hazards.

Mutagenicity: No known significant effects or critical hazards.

Teratogenicity: No known significant effects or critical hazards.

Developmental effects: No known significant effects or critical hazards.

Fertility effects: No known significant effects or critical hazards.

So known significant effects or critical hazards.

### 2. Hazards identification

**Target organs** 

: Contains material which may cause damage to the following organs: blood, kidneys, the nervous system, liver, heart, spleen, upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea.

#### Over-exposure signs/symptoms

Inhalation

: Adverse symptoms may include the following:

respiratory tract irritation

coughing

drowsiness/fatigue

headache

Ingestion

Adverse symptoms may include the following:

nausea or vomiting

Skin

: Adverse symptoms may include the following:

irritation redness

**Eyes** 

: Adverse symptoms may include the following:

pain or irritation

watering redness

Medical conditions aggravated by over-exposure

: Pre-existing disorders involving any target organs mentioned in this MSDS as being at

risk may be aggravated by over-exposure to this product.

See toxicological information (Section 11)

# 3. Composition/information on ingredients

Name	CAS number	%
Butane	106-97-8	1 - 10
propane	74-98-6	1 - 10
Isopropyl alcohol	67-63-0	1 - 5

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

### 4. First aid measures

**Eye contact** 

: Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.

**Skin contact** 

: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.

Inhalation

Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.

Ingestion

: Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

**Protection of first-aiders** 

: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

Notes to physician

: No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

### 5. Fire-fighting measures

Flammability of the product

: In a fire or if heated, a pressure increase will occur and the container may burst. Bursting aerosol containers may be propelled from a fire at high speed.

#### **Extinguishing media**

**Suitable** 

: Use an extinguishing agent suitable for the surrounding fire.

Not suitable

: None known.

carbon monoxide

Special exposure hazards

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Hazardous thermal decomposition products

: Decomposition products may include the following materials: carbon dioxide

Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

### 6. Accidental release measures

**Personal precautions** 

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. In the case of aerosols being ruptured, care should be taken due to the rapid escape of the pressurized contents and propellant. If a large number of containers are ruptured, treat as a bulk material spillage according to the instructions in the clean-up section. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).

**Environmental precautions** 

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

#### Methods for cleaning up

**Small spill** 

: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

# 7. Handling and storage

**Handling** 

Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing gas. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Empty containers retain product residue and can be hazardous.

**Storage** 

: Store in accordance with local regulations. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Use appropriate containment to avoid environmental contamination.

### 8. Exposure controls/personal protection

Ingredient	Exposure limits
Butane	ACGIH TLV (United States, 3/2012).
	TWA: 1000 ppm 8 hours.
	NIOSH REL (United States, 1/2013).
	TWA: 1900 mg/m³ 10 hours.
	TWA: 800 ppm 10 hours.
	OSHA PEL 1989 (United States, 3/1989).
	TWA: 1900 mg/m <sup>3</sup> 8 hours.
	TWA: 800 ppm 8 hours.
propane	ACGIH TLV (United States, 3/2012).
•	TWA: 1000 ppm 8 hours.
	NIOSH REL (United States, 1/2013).
	TWA: 1800 mg/m³ 10 hours.
	TWA: 1000 ppm 10 hours.
	OSHA PEL (United States, 6/2010).
	TWA: 1800 mg/m <sup>3</sup> 8 hours.
	TWA: 1000 ppm 8 hours.
	OSHA PEL 1989 (United States, 3/1989).
	TWA: 1800 mg/m³ 8 hours.
	TWA: 1000 ppm 8 hours.
Isopropyl alcohol	ACGIH TLV (United States, 3/2012).
	STEL: 400 ppm 15 minutes.
	TWA: 200 ppm 8 hours.
	NIOSH REL (United States, 1/2013).
	STEL: 1225 mg/m³ 15 minutes.
	STEL: 500 ppm 15 minutes.
	TWA: 980 mg/m³ 10 hours.
	TWA: 400 ppm 10 hours.
	OSHA PEL (United States, 6/2010).
	TWA: 980 mg/m³ 8 hours.
	TWA: 400 ppm 8 hours.
	OSHA PEL 1989 (United States, 3/1989).
	STEL: 1225 mg/m³ 15 minutes.
	STEL: 500 ppm 15 minutes.
	TWA: 980 mg/m³ 8 hours.
	TWA: 400 ppm 8 hours.

# Recommended monitoring procedures

: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

#### **Engineering measures**

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

#### Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

### Personal protection

Respiratory

: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

### 8. Exposure controls/personal protection

#### **Hands**

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

**Eyes** 

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

Skin

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Environmental exposure** controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## 9. Physical and chemical properties

**Physical state** : Liquid.

Flash point [Product does not sustain combustion.]

Color Colorless. Odor : Floral. [Slight] **Boiling/condensation point** : 100°C (212°F) Melting/freezing point : 0°C (32°F)

Relative density 0.95

: 2.5 kPa (19 mm Hg) [room temperature] Vapor pressure

Vapor density : >1 [Air = 1] **Volatility** > 98% (v/v)

**Evaporation rate** : >1 (butyl acetate = 1)

**Aerosol product** 

Type of aerosol : Spray Heat of combustion : -5.027 kJ/g

### 10. Stability and reactivity

**Chemical stability** 

: The product is stable.

Conditions to avoid

Do not spray on a naked flame or any incandescent material. open flames, sparks and static discharge Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

Incompatible materials

: Reactive or incompatible with the following materials: Strong oxidizing materials

**Hazardous decomposition** products

Under normal conditions of storage and use, hazardous decomposition products should

not be produced.

Possibility of hazardous reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

# 11. Toxicological information

#### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
Butane Isopropyl alcohol	LC50 Inhalation Vapor LD50 Dermal LD50 Oral	Rabbit	658000 mg/m³ 12800 mg/kg 5000 mg/kg	4 hours - -

**Conclusion/Summary** 

**Chronic toxicity** 

: Not available.

**Conclusion/Summary**: Not available.

**Irritation/Corrosion** 

Product/ingredient name	Result	Species	Score	Exposure	Observation
Isopropyl alcohol	Eyes - Moderate irritant	Rabbit	-	24 hours 100 milligrams	-
	Eyes - Moderate irritant	Rabbit	_	10 milligrams	-
	Eyes - Severe irritant	Rabbit	-	100 milligrams	-
	Skin - Mild irritant	Rabbit	-	500 milligrams	-

**Conclusion/Summary** 

**Sensitizer** 

: Not available.

**Conclusion/Summary**: Not available.

**Carcinogenicity** 

**Conclusion/Summary**: Not available.

**Classification** 

Product/ingredient name	OSHA	IARC	NTP	ACGIH	EPA	NIOSH
propane	-	-	-	-		None.
Isopropyl alcohol	-	3	-	A4	-	None.

**Mutagenicity** 

Conclusion/Summary

: Not available.

**Teratogenicity** 

**Conclusion/Summary** 

: Not available.

**Reproductive toxicity** 

**Conclusion/Summary** 

: Not available.

# 12. Ecological information

**Ecotoxicity** : No known significant effects or critical hazards.

#### **Aquatic ecotoxicity**

Product/ingredient name	Result	Species	Exposure
Isopropyl alcohol	Acute LC50 1400000 to 1950000 μg/l Marine water	Crustaceans - Crangon crangon	48 hours
	Acute LC50 1400000 μg/l	Fish - Gambusia affinis	96 hours

Conclusion/Summary

: Not available.

Persistence/degradability

**Conclusion/Summary**: Not available.

Other adverse effects : No known significant effects or critical hazards.

# 13. Disposal considerations

Waste disposal

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Do not puncture or incinerate container.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

### 14. Transport information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
DOT Classification	-	Consumer commodity ORM-D	ORM-D	-	NONTIAMABLE CAS	Use ORM-D Label
TDG Classification	-	Consumer commodity ORM-D	ORM-D	-	2	-
Mexico Classification	-	Consumer commodity ORM-D	ORM-D	-	2	-
ADR/RID Class	1950	Aerosol. Non-flammable.	2	-	2	Tunnel code (E)
IMDG Class	1950	AEROSOLS, non-flammable	2.2	-	2	-
IATA-DGR Class	1950	Aerosol. Non-flammable.	2.2	-	2	Cargo Aircraft Only Quantity limitation: 75 kg Packaging instructions: 203 Limited Quantities - Passenger Aircraft Quantity limitation: 30 kg Packaging instructions: Y203

PG\*: Packing group

### 15. Regulatory information

**HCS Classification** : Irritating material

Target organ effects

**U.S. Federal regulations** TSCA 8(a) CDR Exempt/Partial exemption: Not determined

> United States inventory (TSCA 8b): All components are listed or exempted. Clean Air Act (CAA) 112 regulated flammable substances: propane; Butane

Clean Air Act Section 112 : Not listed

(b) Hazardous Air **Pollutants (HAPs)** 

Clean Air Act Section 602 : Not listed

**Class I Substances** 

Clean Air Act Section 602 : Not listed

Class II Substances

**DEA List I Chemicals** 

: Not listed

(Precursor Chemicals)

**DEA List II Chemicals** 

: Not listed

(Essential Chemicals)

#### **SARA 302/304**

#### **Composition/information on ingredients**

No products were found.

**SARA 304 RQ** : Not applicable.

**SARA 311/312** 

Classification Immediate (acute) health hazard

Delayed (chronic) health hazard

#### **Composition/information on ingredients**

Name	%	Fire hazard	Sudden release of pressure	(acute)	Delayed (chronic) health hazard
propane Butane Isopropyl alcohol	1 - 10 1 - 10 1 - 5	Yes. Yes. Yes.	Yes.	No. No. Yes.	Yes. Yes. Yes.

#### **SARA 313**

	Product name	CAS number	%
Form R - Reporting requirements	Isopropyl alcohol	67-63-0	1 - 5
Supplier notification	Isopropyl alcohol	67-63-0	1 - 5

SARA 313 notifications must not be detached from the MSDS and any copying and redistribution of the MSDS shall include copying and redistribution of the notice attached to copies of the MSDS subsequently redistributed.

#### State regulations

**Massachusetts** : The following components are listed: PROPANE; BUTANE; ISOPROPYL ALCOHOL

**New York** : None of the components are listed.

**New Jersey** : The following components are listed: PROPANE; BUTANE; ISOPROPYL ALCOHOL;

2-PROPANOL

Pennsylvania : The following components are listed: PROPANE; BUTANE; 2-PROPANOL

**Canada inventory** : All components are listed or exempted.

#### **International regulations**

Static Free™ Plast-N-Glas®

### 15. Regulatory information

**International lists** 

: Australia inventory (AICS): All components are listed or exempted. China inventory (IECSC): All components are listed or exempted.

**Japan inventory**: All components are listed or exempted. **Korea inventory**: All components are listed or exempted. **Malaysia Inventory (EHS Register)**: Not determined.

New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempted.

Philippines inventory (PICCS): All components are listed or exempted.

Taiwan inventory (CSNN): Not determined.

Chemical Weapons
Convention List Schedule

**I Chemicals** 

: Not listed

Chemical Weapons

**Convention List Schedule** 

**II Chemicals** 

: Not listed

ii Cileillicais

Chemical Weapons
Convention List Schedule

**III Chemicals** 

: Not listed

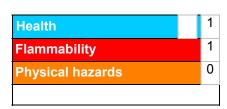
### 16. Other information

**Label requirements** 

: CAUSES EYE IRRITATION. MAY CAUSE SKIN IRRITATION. CONTAINS MATERIAL

THAT MAY CAUSE TARGET ORGAN DAMAGE, BASED ON ANIMAL DATA.

Hazardous Material Information System (U.S.A.)



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on MSDSs under 29 CFR 1910. 1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.)



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

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Static Free™ Plast-N-Glas®

### 16. Other information

Date of previous issue : 3/26/2013.

Version : 1.01

Prepared by : Not available.

▼ Indicates information that has changed from previously issued version.

#### **Notice to reader**

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.