

Version 1.0 Revision Date 05/11/2015

### 1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY UNDERTAKING

1.1 Product identifier

Product name FR GRANICOAT ®

Chemical name Unsaturated Polyester Resin

Product code Alexander, Alicon, Nury, Accent, Starlight, Solids, Sparkle, Mountain, Spray

Chip2, Custom Colors & Designs

CAS number Not applicable

1.2 Manufacturer, Importer or Responsible Party

Name SAFAS Corporation

Address 2 Ackerman Avenue Clifton

New Jersey, 07011

USA

Telephone +1 973 772 5252

1.5 Emergency phone number

Telephone <u>USA</u>: 1-800-424-9300

International: 1-703-527-3887

1.6 Relevant use of the product

Applications Residential, commercial or transportation applications

1.7 Product Uses advised against

No data available

#### 2. HAZARDS IDENTIFICATION

#### 2.1. The hazard classification of the chemical according to HazCom 2012 (US-GHS)

Flam. Liq. 3 H226 Flammable liquid and vapour

Acute Tox. 4 H332 Harmful if inhaled

Eye Irrit. 2 H319 Causes serious eye irritation

Skin Irrit. 2 H315 Causes skin irritation

Skin Sens. 1 H317 May cause an allergic skin reaction

**2.2.** Signal word Warning

2.3. Hazard statements H226 Flammable liquid and vapour

H332 Harmful if inhaled

H319 Causes serious eye irritation

H315 Causes skin irritation

H317 May cause an allergic skin reaction



#### 2.4. Danger symbols



### 2.5. Precautionary statements

Prevention P271 Use only outdoors or in a well-ventilated area

P261 Avoid breathing dust/fume/gas/mist/vapours/spray

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

protection

Response P312 Call a POISON CENTER or doctor/physician if you feel unwell

Storage P403 + P235 Store in a well-ventilated place. Keep cool.

Disposal P501 Dispose of contents/container in accordance with local / regional /

national / international regulations

2.6. Description of any

hazards not otherwise

classified

2.7. % ingredient(s) with

unknown acute

toxicity

Primary routes of entry: Inhalation and skin absorption.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

29,5%

Chemical name	CAS-Nr.	Concentration %
Unsaturated Polymers <sup>(1)</sup>	mixture	33
Aluminum hydroxide (ATH)	21645-51-2	21
Organic Pigments (TIO2)	13463-67-7	1
BYK R605 <sup>(2)</sup>	mixture	0.5
Styrene Monomer	100-42-5	17
Methyl Methacrylate	80-62-6	7
Galaxy Granules <sup>(3)</sup>	mixture	20
Tinuvin 328 (2-(2H-benzotriazol- 2-yl)-4,6-ditertpentylphenol)	25973-55-1	0.5

- (1) The component unsaturated polymers is a mixture consisting basically of Styrene, Methyl methacrylate.
- (2) BYK R605 is a mixture consisting basically of Solvent naphtha and Xylene.
- (3) Galaxy Granules is a mixture consisting basically of unsaturated polymers and ATH.



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#### 4. FIRST AID MEASURES

#### 4.1 First Aid measures after Inhalation

Following inhalation Remove victim to fresh air and keep at rest in a position comfortable for

breathing. If victim is unconscious, administer artificial respiration and/or

oxygen as needed. Seek medical aid.

4.2 First Aid measures after Skin exposure

Following skin contact Wash with plenty of soap and water. Remove/Take off immediately all

contaminated clothing. Rinse skin with water/shower. If skin irritation or

rash occurs: Get medical advice/attention.

4.3 First Aid measures after Eye exposure

Following eye contact Rinse cautiously with water for at least 10 minutes. Remove contact lenses if

present and easy to do - continue rinsing. If eye irritation persists get

medical advice/attention.

4.4 First Aid measures after Ingestion

Following ingestion Wash mouth with water. Keep patient calm, remove to fresh air, seek

medical attention. DO NOT INDUCE VOMITING (aspiration hazard).

4.5 Most important symptoms and effects, both acute and delayed

INHALATION Vapours may cause mucous membrane irritation and upper respiratory tract

discomfort. High concentrations may result in headache, nausea,

insensibility and other central nervous system effects.

SKIN Prolonged or frequent contact may cause defatting and dryness of the skin

with resultant irritation and possible dermatitis. Styrene may be absorbed

through the skin in toxic amounts.

EYES May cause irritation. Liquid splashes may result in more serious injuries. May

cause Lacrymation (tears).

INGESTION May cause gastrointestinal disturbances, pain and discomfort.

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

Not determined

#### 5. FIREFIGHTING MEASURES

**5.1 Extinguishing media** Suitable: Water spray, foam, dry chemical, carbon dioxide or any Class B

extinguishing agent.

**Unsuitable**: Not determined

5.2 Special hazards arising from chemical or mixture

during the fire

At elevated temperatures, such as in a fire, polymerization may take place. If polymerization takes place in a closed container, there is the possibility of violent rupture of the container. Product vapour may form an explosive mixture

in air.



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5.3 Special Protective Precautions or equipment for firefighters Fire fighters and others exposed to vapours or products of combustion should wear self-contained breathing apparatus. Equipment should be thoroughly decontaminated after use.

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

6.1 Personal precautions, protective equipment

Remove all sources of ignition. Ventilate area. Use only outdoors or in a well-ventilated area. Avoid breathing dust/fume/gas/mist/vapours/spray.

**6.2 Emergency procedures** 

Use breathing apparatus if exposed to vapours/dust/aerosol. Wear protective gloves/protective clothing/eye protection/face protection. Use of dust mask required to avoid inhaling the nuisance type dust.

6.3 Methods and materials used for containment

Absorb spill with an absorbent material such as sawdust, vermiculite or sand and place in a closed container. If large spill, dike the area to prevent this material from entering water systems or sewers. This material contains the following ingredients which, if spilled or released in quantities equal to or greater than the Reportable Quantity (RQ), are subject to the reporting requirements of CERCLA and/or SARA (40 CFR parts 302 & 355):

Styrene Monomer: RQ Value = 1,000 lbs
Methyl Methacrylate: RQ Value = 1,000 lbs

6.4 Cleanup procedures

Collect in closed and suitable containers for disposal. Treat the recovered material as prescribed in the section on waste disposal.

#### 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid breathing dust /fume /gas /mist /vapours /spray. Wear protective gloves/protective clothing/eye protection/face protection. Wash hands with water and soap thoroughly after handling. Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment.

7.2 Conditions for safe storage

Avoid storage above 72°F. Store in a well-ventilated place. Keep cool. Keep container tightly closed. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid improper addition of promoter and/or catalyst. A promoter and catalyst used with this product should be mixed separately with the product and must never be mixed together.

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### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 ACGIH-Threshold Limit Value (TLV)

Exposure limit values of the components:

Component / CAS	STEL, 15 min (OSHA, ACGIH)	
	ppm	
Styrene, 100-42-5	100	
Organic Pigments (TIO2), 13463-67-7	-	
Methyl Methacrylate, 80-62-6	-	

#### 8.2 OSHA-Permissible Exposure Limit (PEL)

Exposure limit values of the components:

Component / CAS	TLV, 8H (OSHA, PEL, ACGIH)	
	ppm	
Styrene, 100-42-5	50	
Organic Pigments (TIO2), 13463-67-7	-	
Methyl Methacrylate, 80-62-6	100	

#### 8.3 Any other exposure limit used or recommended by chemical manufacturer

No data available

#### **8.4 Engineering Controls**

General ventilation is required during normal use. Local ventilation may be required during certain operations to keep exposure levels below the exposure limit values listed above.

#### **8.5 Personal Protective Equipment**

<u>Respiratory protection</u>: If an exposure limit value listed above is exceeded, then suitable respiratory protection must be worn to prevent overexposure. Use of dust mask is required.

Hand protection: Wear appropriate impervious gloves to prevent skin contact.

Eye protection: Wear a face shield or protective goggles. Eye wash station and safety shower should be available.

Body protection: Wear protective clothing to prevent skin contact.

<u>Hygiene measures</u>: Take off contaminated clothing and wash before reuse. Contaminated work clothing should not be allowed out of the workplace.



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#### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information of basic physical and chemical properties

Appearance (physical state, colour, etc.)

Liquid with high viscosity

Odor

Not determined

Odor threshold

Not determined

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Not applicable

Melting point/freezing

point;

Not applicable

**Boiling point** 

270-300°F

**Boiling Range** 

Not applicable

Flash point

92°F

Evaporation rate

Slower than n-Butyl Acetate

Flammability

Flammable (Flammability Class: 1C)

Upper/lower flammability or explosive limits

LEL: 1.1

Oxidising properties

Not determined

Vapor pressure

Not determined

Vapor density

Heavier than air

Relative density

Not determined

Solubility in water

Not determined

Other Solvents

Not determined

Partition coefficient (noctanol/water)

Not determined

Auto ignition

temperature

Not determined

Decomposition

Not determined

temperature

Viscosity

Not determined

Other information

Specific gravity 1.5

Volatile % 28 by weight



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#### 10. STABILITY AND REACTIVITY

**10.1 Reactivity** Reactive (HMIS Rating = 2)

**10.2 Chemical stability** Stable

10.3 Possibility of hazardous

reactions

Hazardous polymerization may occur at elevated temperatures (such as in a fire).

**10.4 Conditions to avoid** Heat and direct sunlight.

**10.5 Incompatible materials** Strong acids and oxidizing agents, promoter and/or catalyst.

10.6 Hazardous decomposition

products

Heating of this material to decomposition may cause the emission of irritating acrid

fumes.

#### 11. TOXICOLOGICAL INFORMATION

11.1 Routes of exposure

Acute toxicity: This mixture may be harmful if inhaled

Skin corrosion/irritation: This mixture may cause skin irritation

Serious eye damage/irritation: This mixture may cause serious eye irritation

Respiratory or skin sensitisation: This mixture may cause skin sensitisation

11.2 Measures of Toxicity (e.G, LD50, LC50) + expected

amount to kill 50%

Not determined

11.3 Listed in IARC or considered

carcinogen by NTP or OSHA

No data available

**11.4 Related symptoms** No data available

#### 12. ECOLOGICAL INFORMATION

**12.1 Toxicity** Not determined

12.2 Persistence and

degradability

Not determined

12.3 Bioaccumulative potential Not determined



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12.4 Mobility in soil Not determined

12.5 Other adverse effects Not determined

#### 13. DISPOSAL CONSIDERATIONS

13.1 Disposal methods to employ

This material has been tested and found to have to have a flash point below 140°F. If discarded, this material and containers should be treated as hazardous wastes based on the characteristic of ignitability as defined under the federal RCRA regulations (40 CFR 261). Disposal of this material and its container requires compliance with applicable labelling, packaging, and record keeping standards. Solidified and/or scrap finished product is Nonhazardous under RCRA. Check local regulation for details on disposal. For further information, contact your state or local waste agency or the Federal EPA RCRA hotline (800-424-9346 or 202-382-3000).

13.2 Description of appropriate disposal containers to use

No data available

13.3 Description of the physical and chemical properties that may affect disposal activities

No data available

13.4 Language discouraging sewage disposal.

No data available

13.5 Any special precautions for landfills or incineration

No data available

activities

#### 14. TRANSPORT INFORMATION

**UN Number** 1866

**UN proper shipping** 

name

Resin Solution, flammable

**Transport hazard** 

classes

3

**Packing group** Ш

**Environmental hazards** Not determined

**Guidance On transport** 

in bulk

Not determined

Special precautions for Not determined

user



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#### 15. REGULATORY INFORMATION

#### National and/or regional regulatory information of the chemical or mixtures

SCAQMD Rule 1162 establishes specific process, control, housekeeping and record keeping requirements for fabrication operations using polyester resin materials. It is the responsibility of the fabricator to ensure compliance with these requirements.

Styrene is NOT currently listed as a carcinogen by California's Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65).

<u>SARA HAZARD CLASSIFICATION</u>: This material has been categorized as having the following hazard(s) as defined by SARA Title III regulations (40 CFR 370): acute, fire.

<u>SARA SECTION 313 LISTED INGREDIENTS</u>: The following ingredients in this material are subject to the reporting requirements of section 313 of SARA and 40 CFR 372 {see Section 3 for percentage of ingredient(s)}. Styrene Monomer (100-42-5) Methyl Methacrylate (80-62-6)

HMIS Rating: Health = 2

Fire = 3 Reactivity = 2

#### 16. OTHER INFORMATION

#### Indications on the revision

Revision on 11th of May 2015:

Addition of all fields as required by regulation (US) HazCom 1910.1200 [HCS 2012]. Update of the classification information and update of related sections accordingly.

#### Abbreviations and acronyms used

CAS N°.: Chemical Abstract Service Number

CFR: Code of Federal Regulations

HMIS: Hazardous Materials Identification System

UN N°.: United Nations Number

#### Methods of evaluation for the classification of mixtures

The classification of the mixture was set based on the regulation (US) HazCom 1910.1200 [HCS 2012].

#### Other information

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