

Material Safety Data Sheet

in accordance with § 91/155

Product: **IDEAL™ Fleckstop-Granit**

Date of issue: 2015-06-11 revised on: 2017-08-11

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1. General Information:

Trade Name: IDEAL™ Fleckstop-Granit
Product: INF-G
Function: makes granite oil and water repellent.
Manufacturer: M. EBINGER, Huetteldorfer Strasse 30, 1150 Vienna, Austria
Emergency Phone: +43 (0)1 4868904

2. Composition / Information on ingredients:

Chemical characteristic: Mixture of modified silicium particles in alcoholic solution
Dangerous ingredients: *Chemical name:* 2-propanol *CAS-number:* 67-63-0

3. Hazards identification:

Emergency overview:

Warning! Flammable liquid and vapour. Harmful if swallowed or inhaled. Causes irritation to eyes and respiratory tract. Affects central nervous system. May be harmful if absorbed through skin. May cause irritation to skin

Potential health effects:

Inhalation:

Inhalation of vapours irritates the respiratory tract. Exposure to high concentrations has a narcotic effect, producing symptoms of dizziness, drowsiness, headache, staggering, unconsciousness and possibly death.

Ingestion:

Can cause drowsiness, unconsciousness, and death. Gastrointestinal pain, cramps, nausea, vomiting, and diarrhea may also result. The single lethal dose for a human adult = about 250 mls (8 ounces).

Skin contact:

May cause irritation with redness and pain. May be absorbed through the skin with possible systemic effects.

Eye contact:

Vapours cause eye irritation. Splashes cause severe irritation, possible corneal burns and eye damage.

Chronic exposure:

Chronic exposure may cause skin effects.

Aggravation of pre-existing conditions:

Persons with pre-existing skin disorders or impaired liver, kidney, or pulmonary function may be more susceptible to the effects of this agent.

4. First aid measures:

Inhalation:

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

Ingestion:

Give large amounts of water to drink. Never give anything by mouth to an unconscious person. Get medical attention.

Skin contact:

Immediately flush skin with plenty of water for at least 15 minutes. Call a physician if irritation develops.

Eye contact:

Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

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5. Fire fighting measures:

Fire:

Flashpoint: 23°C [54°F] CC

Autoignition temperature: 399°C [750°F]

Flammable limits in air % volume: vol%: 2.5 vol%: 10.5

Listed fire data is for pure isopropyl alcohol.

Explosion:

Above flash point, vapour-air mixtures are explosive within flammable limits noted above. Contact with strong oxidizers may cause fire or explosion. Vapours can flow along surfaces to distant ignition source and flash back. Sensitive to static discharge.

Fire extinguishing media:

Water spray, dry chemical, alcohol foam, or carbon dioxide. Water spray may be used to keep fire exposed containers cool, dilute spills to non-flammable mixtures, protect personnel attempting to stop leak and disperse vapours.

Special information:

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

6. Accidental release measures:

Ventilate area of leak or spill. Remove all sources of ignition. Wear appropriate personal protective equipment as specified in Section 8. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Contain and recover liquid when possible. Use non-sparking tools and equipment. Collect liquid in an appropriate container or absorb with an inert material (e. g., vermiculite, dry sand, earth), and place in a chemical waste container. Do not use combustible materials, such as saw dust. Do not flush to sewer! If a leak or spill has not ignited, use water spray to disperse the vapours, to protect personnel attempting to stop leak, and to flush spills away from exposures.

7. Handling and storage:

Protect against physical damage. Store in a cool, dry well-ventilated location, away from any area where the fire hazard may be acute. Outside or detached storage is preferred. Separate from incompatibles. Containers should be bonded and grounded for transfers to avoid static sparks. Storage and use areas should be No Smoking areas. Use non-sparking type tools and equipment, including explosion proof ventilation. Containers of this material may be hazardous when empty since they retain product residues (vapours, liquid); observe all warnings and precautions listed for the product. Small quantities of peroxides can form on prolonged storage. Exposure to light and/or air significantly increases the rate of peroxide formation. If evaporated to a residue, the mixture of peroxides and isopropyl may explode when exposed to heat or shock.

8. Exposure controls / personal protection:

Chemical name: Isopropyl alcohol *CAS-number:* 67-63-0 *Type:* MAK *Value:* 500 *Unit:* mg/m³

Ventilation system:

A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details

Personal protection equipment:

If the exposure limit is exceeded, a full facepiece respirator with organic vapour cartridge may be worn up to 50 times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. For emergencies or instances where the exposure levels are not known, use a full-facepiece positive-pressure, air-supplied respirator.

WARNING: Air purifying respirators do not protect workers in oxygen-deficient atmospheres.

Skin protection:

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact. Neoprene and nitrile rubber are recommended materials.

Eye protection:

Use chemical safety goggles and/or a full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area.

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9. Physical and chemical properties:

form: liquid

odour: alcoholic

colour: yellowish

solubility:

miscible

specific density: 0.89 g/cm³

viscosity: ca. 2mPas at 20°C

pH: 2-3

flammability: flammable

flash point: >23°C

autoignition: 235°C (IPA)

vapour pressure: 4.4 KpA at 20°C

lower flammable limit: 2.5% v/v

upper flammable limit: 10.5% v/v

10. Stability and reactivity

Stability:

Stable under ordinary conditions of use and storage. Heat and sunlight can contribute to instability.

Hazardous decomposition products:

Carbon dioxide and carbon monoxide may form when heated to decomposition.

Hazardous polymerisation:

Will not occur.

Incompatibilities:

Heat, flame, strong oxidizers, acetaldehyde, acids, chlorine, ethylene oxide, hydrogen-palladium combination, hydrogen peroxide-sulfuric acid combination, potassium tert-butoxide, hypochlorous acid, isocyanates, nitroform, phosgene, aluminum, oleum and perchloric acid.

Conditions to avoid:

Heat, flames, ignition sources and incompatibles

11. Toxicological information:

Oral rat LD50: 5045 mg/kg; skin rabbit LD50: 12.8 gm/kg; inhalation rat LC50: 16,000 ppm/8-hour; investigated as a tumorigen, mutagen, reproductive effector

Cancer lists:

Ingredient: Isopropyl alcohol [67-63-0]

NTP Arcinogen

Known: no

Anticipated: no

IARC category 3

12. Ecological information:

Environmental fate:

When released into the soil, this material is expected to quickly evaporate. When released into the soil, this material may leach into groundwater. When released into the soil, this material may biodegrade to a moderate extent. When released to water, this material is expected to quickly evaporate. When released into the water, this material is expected to have a half-life between 1 and 10 days. When released into water, this material may biodegrade to a moderate extent. This material is not expected to significantly bioaccumulate. When released into the air, this material is expected to be readily degraded by reaction with photochemical produced hydroxyl radicals. When released into the air, this material is expected to have a half-life between 1 and 10 days. When released into the air, this material may be removed from the atmosphere to a moderate extent by wet deposition.

Environmental toxicity:

The LC50/96-hour values for fish are over 100 mg/l. This material is not expected to be toxic to aquatic life.

13. Disposal Considerations:

Waste product disposal:

Dispose in accordance with all applicable regulations. All disposal methods must be in compliance with local, state and federal laws and regulations.

Container disposal:

Wash out used container and dispose into trash container for plastic.

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14. Transport information:

GGVS/ADR/RID (Road and Railway)

Description: flammable solution (isopropyl alcohol)

Classification code: 3

Packing group: 3 hazard label

UN-No.: 1993

Remarks:

Transport as limited amount „LQ4“. Non restriction for inner volume of 3 liter and package of 12 liter.

MDG (Marine Transport)

Proper shipping name: IPA containing solution

Classification code: 3.3

Packing group: 2 hazard label

UN-No.: 1993

Limited quantity: Y305/Max. Net/II/Pack. 1L, ---305/Max. Net/II/Pack. 5L, 307/Max. Net/II/Pack. 60L

IATA (Air transport)

Proper shipping name: isopropyl solution

Classification code: 3

Packing group: 2 hazard label

UN-No.: 1993

Passenger aircraft: limited quantities: Y305/Max.net/II/Package 1 li.

> as limited quantity: 305/Max.net/II/Package 5 li.

Cargo aircraft: 307/II/Max.net/Package 60 li.

15. Regulatory information

R-Phrases:

R11 (flammable)

R36 irritating to eyes

S-Phrases:

S02 keep out of reach of children

S07 store in a tightly closed container

S16 keep away from source of ignition

16. Other information

Label precautions:

Avoid contact with eyes, skin and clothing. Don't drink it. Wash thoroughly after handling. Avoid breathing dust or vapours. Keep container closed.

Label first aid:

If swallowed, rinse mouth out and drink plenty of water. Take to a physician for medical treatment. If inhaled, remove to fresh air. In case of contact. Immediately flush eyes or skin with plenty of water. If applied by aerosol, use adequate ventilation

Disclaimer:

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