
GENSIL 601

Release Agent

Oct 2005

TECHNICAL DATA SHEET

Description

GENSIL AEROSOL 601 is a spray-on release agent based on a polydimethylsiloxane formulation in an aerosol pack.

Advantages properties:

GENSIL AEROSOL 601 after application has the following

- **THERMAL STABILITY** - a unique property of this product compared with other lubricants. Viscosity is maintained over most working conditions from -45°C to 204°C thereby providing protection against frozen lubricants and smoke or carbon residue.
- **EXTREME COMBUSTION RESISTANCE** - high safety factor due to flash points of active ingredients being over 315°C.
- **CHEMICAL INERTNESS TO MOST MATERIALS** - harmless to metals (even at sustained temperatures up to 240°C), textile fibres, plastics, leather, paper and rubber.
- **EXTREMELY LOW SURFACE TENSION** - between 20.5 and 21.2 dynes per cm enabling even, tenacious "wetting" of surfaces down to the molecular level.
- **EXCELLENT BARRIER** - acts as a barrier to corrosion from air, water, salt etc and provides excellent resistance to oxidation.
- **RUBBER LUBRICANT** - best known lubricant for rubber with minimal effect on plastics and rubbers.
- **NZFSA Approved C26 (All animal product except dairy)** - approved for food grade applications.
- **NON-TOXIC NON-STAINING** - a clean non-staining lubrication which is non-toxic upon evaporation of solvent.

Typical Properties

Typical properties of the silicone component of **GENSIL AEROSOL 601** are as follows:

■ Appearance	Clear liquid
■ Effective Operating Range, °C	-45 to +200
■ Surface Tension @ 25°C, dynes/cm	21.1
■ Density @ 25°C, approx	0.97
■ Flashpoint, °C, approx	315
■ Refractive Index	1.403
■ Solubility	Insoluble in water Soluble in hydrocarbons

Typical Applications

GENSIL AEROSOL 601 is used:

- **Plastic Mould Release** - ideal for use as a mould release as the fine spray provides an even dispersion throughout the mould and greatly reduces excess release agent deposition.
- **Die Cutting** - lubricates guillotine blades and paper platforms overcoming binding normally associated with curing of pressure sensitive material. It cuts down on operation time and increases knife life.
- **Printing Trade** - lubricates folding platforms and carrier belts. Prevents ink off-setting.
- **Food Grade Applications** - MAF Approved C 26 (Fish, Game, Meat) where it is permitted to be used on food contact surfaces as a release agent or as an anti-rust film.
- **General Applications** - lubricates conveyor sheets, sewing tables. Can be used in processing industries to prevent sticking in the processing equipment containers and conveyors. Can be used as a die casting release agent. Repels ink, water, oil and adhesives from printing and die cutting operations. Suitable whenever a clean heat resistant and non-charring lubricant is required.

Precautions

Precautions to be followed are:

- The propellant used in the spray pack is highly flammable.
- Keep in a cool place out of the sun.
- Do not use near naked flames.
- Use in a well ventilated room and keep out of reach of children.

Health & Safety

Health and safety can be protected by:

- Avoid ingestion and prolonged or repeated contact with skin.
- If contact with eyes occurs, wash eyes with copious quantities of water and consult a doctor if irritation persists.
- The Material Data Sheet defining the known hazards and describing the appropriate safety



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precautions with respect to the product is available from Rhodia New Zealand Limited.

Cleaning

GENSIL AEROSOL 601 can be completely removed by using conventional cleaning methods for oily surfaces if the “release” properties are no longer wanted (eg in painting or plating).

Availability

GENSIL AEROSOL 601 is manufactured in New Zealand by Rhodia New Zealand Limited. It is available in 500 ml aerosol packs where there are 12 packs per carton.

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