Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

Product identifier:

Product Name: DuoMax
Brand: By Djess

Relevant identification uses of the substance and uses advised against:

Identified uses: Slip solution for shaping acrygels.
Uses advised against: No other uses are advised.

Details of the supplier of the Safety Data Sheet:

Pretty Polish
Buiteneinde 3
3291 AG. Strijen
The Netherlands
+31-613-058-160

Emergency telephone numbers:

24-hour Emergency Contact:
NVIC: +31-30-274-8888

Section 2: Hazards Identification

Classification of the substances or mixture:
The mixture is classified according to: Regulation EC 1272/2008 [EU-GHS/CLP]

Hazard classes/Hazard categories:
Flammable liquid, Category 2

Label elements:

Hazard pictogram:

Signal word: Danger.
Hazard statements:
H225 Highly flammable liquid and vapor.
Precautionary statements:
Prevention:
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Response:
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse affected areas with water.
P370 + P378 In case of fire: Use dry chemical, alcohol resistant foam, or carbon dioxide to extinguish.

Storage:
P403 + P235 Store in a well-ventilated place. Keep cool.
Disposal:
P501 Dispose of contents/container in accordance with local regulations.

Section 3: Composition/Information on Ingredients

Substance/Mixture: Mixture.
Ingredients:

Substance name (IUPAC/EC)	**CAS-No.** **EC-No.**	**Concentration % by weight**	**SCLs, M-Factors, Acute Toxicity Estimates (ATE)**	**Classification** EC1272/2008
ethanol ethyl alcohol	64-17-5 200-578-6	> 75%	-	Flam. Liq. 2 H225

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.

Section 4: First-Aid Measures

Description of first aid measures:

In case of inhalation: Remove from exposure, taking care to avoid inhaling vapors. Keep warm rest. Obtain medical attention if symptoms appear.
In case of skin contact: Wash skin with water. Obtain medical attention if soreness or redness persists.
In case of eye contact: Immediately flood the eye with plenty of water for at least 15 minutes, holding the eye open. Remove contact lenses if possible. Obtain medical attention.
In case of ingestion: Do not induce vomiting. Obtain medical attention if symptoms appear or if large quantities have been ingested. Accidental ingestion at a level high enough to be dangerous to health is unlikely.

Most important symptoms and effects, both acute and delayed:
Irritation to the eyes, skin, nose; headache, drowsiness, lassitude (weakness, exhaustion), narcosis; cough; liver damage; anemia; reproductive, teratogenic effects.
Indication of any immediate medical attention and special treatment needed: Treat symptomatically.

Section 5: Fire-Fighting Measures

Extinguisher media:

Suitable extinguisher media: Dry chemical, alcohol resistant foam, carbon dioxide, or water spray.
Special exposure hazards: Flammable liquid and vapor. Oxides of carbon.
Protection for fire-fighters: Self-contained breathing apparatus with full-face mask and full protective clothing (standard wear).
Additional information: Be aware of possibility of re-ignition. This product gives off flammable vapors which may form explosive mixtures with air. Vapors with a source of ignition can create a flash fire, not a UVCE

(Unconfined Vapor Cloud Explosion). Run off to sewer may cause fire or explosion hazard. Containers may explode in heat of fire. Use water to cool fire-exposed containers and to disperse vapor.

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:

Eliminate all sources of ignition. Wear appropriate protective clothing. Avoid breathing vapors. Keep unnecessary people away; isolate hazard area and deny entry. Consider need for evacuation. Stay up wind and keep out of low areas where vapor may accumulate and ignite. Stop leak if this can be achieved without risk. For small spills take up with a non-combustible absorbent. For large spills, dike or dam for later disposal.
Environmental precautions: Try to prevent the material from entering drains or water courses. Advise authorities if spillage has entered water course or sewer or has contaminated soil or vegetation.

Methods for containment and cleaning up:

Allow to evaporate if it is safe to do so or contain and absorb using earth, sand or other inert material then transfer into suitable containers for recovery or disposal. Ventilate contaminated area thoroughly.

Section 7: Handling and Storage

Precautions for safe handling:

Store in tightly closed containers in cool, dry, isolated, well-ventilated area. Avoid inhaling vapors. Avoid contact with eyes, skin and clothing. Suitable equipment for dealing with fires, spills and leaks must be readily available. Earth all equipment. Use explosion protected electrical equipment and lighting. Do not smoke eat or drink in areas of use and storage.

Conditions for safe storage, including incompatibilities:

Storage area should be cool, dry, well ventilated, out of direct sunlight and separated from oxidants and strong mineral acids. Store in original containers. Store away from sources of heat or ignition. Storage tanks should have equipotential electrical bonding and be earthed. Storage should be closed.
Incompatible materials: natural rubber, PVC, methyl-methacrylate plastics, polyamides, zinc, brass, aluminum under certain conditions.
Compatible materials: Stainless steel, titanium, cast bronze, cast iron, carbon steel, polypropylene, neoprene, nylon, viton, ceramic, carbon, glass.
Specific end uses: Refer to Section 1.

Section 8: Exposure Controls and Personal Protection

Control parameters:

Occupational exposure limits:
Ethyl alcohol, CAS 64-17-5
NIOSH REL TWA 1,000 ppm (1,900 mg/m^3)
OSHA PEL TWA 1,000 ppm (1,900 mg/m^3)

Exposure controls:

Appropriate engineering controls: Use of the basic principles of Industrial Hygiene will enable this material to be used safely. Exposure to this material may be controlled in a number of ways. The measures appropriate for a particular worksite depend on how the material is used and on the potential for exposure. If engineering

controls and work practices are not effective in preventing or controlling exposure, then suitable personal equipment, which is known to perform satisfactorily, should be used.

Individual protection measures, such as personal protective equipment:
Respiratory protection: Use with adequate ventilation. In case of insufficient local exhaust ventilation and/or handling with open equipment: Respiratory air fed breathing apparatus if there is a risk of exposure to high vapor concentrations. If using a half mask: organic vapor cartridge Ax type.
Eye protection: Safety goggles.
Skin protection: Wear gloves with breakthrough times >480 minutes: Nitrile rubber gloves. Butyl rubber gloves (complying to EN 374-3). The exact choice of glove type depends on the type of work being undertaken. Gloves should be chosen in consultation with a glove manufacturer and after a full assessment of the working conditions. Gloves should be replaced regularly.
Body protection: Standard work wear and safety boots for normal handling and use.

Section 9: Physical and Chemical Properties

Information on basic physical and chemical properties:

Appearance (form): Liquid.
Color: Colorless.
Odor: Melon.
Odor threshold: No data available.
pH (concentration): No data available.
Melting point/range (°C): No data available.
Boiling point/range (°C): 78 °C
Flash point (°C): 21 °C
Evaporation rate: No data available.
Flammability: Highly flammable liquid and vapor.
Upper/lower flammability limits: Upper: 19.0% Lower: 3.3%
Vapor pressure (20 °C): 57 hPa
Vapor density: 1.6
Relative density (25 °C): 0.83
Water solubility (g/L) at 20 °C: Completely soluble.
n-Octanol/Water partition coefficient: No data available.
Auto-ignition temperature: 362 °C
Viscosity, dynamic (mPa.s): No data available.

Section 10: Stability and Reactivity

Reactivity: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability: Stable under recommended conditions of storage.
Possibility of hazardous reactions: Hazardous polymerization is not expected to occur.
Conditions to avoid: High temperatures. Proximity to sources of ignition.
Incompatible materials: Strong mineral acids, oxidizing agents, alkali metals, ammonia, peroxides. Aluminum at higher temperatures.
Hazardous decomposition products: Under normal conditions of storage and use, hazardous decomposition products should not be produced. Combustion will generate oxides of carbon.

Section 11: Toxicological Information

Information on toxicological effects:
Acute toxicity: Oral route: No adverse effect observed LD50 8,300 mg/kg bw
Skin corrosion/irritation: No adverse effect observed (not irritating).
Serious eye damage/irritation: No adverse effect observed (not irritating).
Respiratory or skin sensitization: No data available.
Germ cell mutagenicity: No data available.
Carcinogenicity: Not listed by ACGIH, IARC, NTP, or California Proposition 65.
Reproductive toxicity: No data available.
STOT-single exposure: No data available.
STOT-repeated exposure: No data available.
Aspiration hazard: No data available.

Section 12: Ecological Information

Toxicity: No data available.
Persistence and degradability: Biodegradation is expected to occur rapidly in the environment.
Bioaccumulative potential: Bioaccumulation is not significant. This product is readily biodegradable.
Mobility in soil: Very high mobility.
Results of PBT& vPvB assessment: No data available.

Section 13: Disposal Considerations

Substance disposal: Dispose of in accordance with all applicable local and national regulations. Use recovery/recycling where feasible, otherwise incineration is the recommended method of disposal. If correctly incinerated this material will decompose to carbon dioxide and water only.
Container disposal: Empty containers may contain hazardous residues. Do not cut, puncture or weld on or near to the container. Labels should not be removed from containers until they have been cleaned. Contaminated containers must not be treated as household waste. Containers should be cleaned by appropriate methods and then re-used or disposed of by landfill or incineration as appropriate. Do not incinerate closed containers.

Section 14: Transport Information

UN number: 1170
UN proper shipping name: ETHANOL SOLUTION
Transport hazard class: Class 3
Packing group: II

Section 15: Regulatory Information

Safety, health and environmental regulations/legislation for the mixture:

Relevant information regarding restrictions: None known.
EU regulations: Regulation EC 1272/2008 [EU-GHS/CLP]
Toxic Substances Control Act (TSCA) Chemical Substance Inventory: All components are listed on the TSCA inventory or are exempt.

SARA Title III Section 302/304 Extremely Hazardous Substance: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
SARA Title III Section 311/312 Hazard Categorization: Fire Hazard.
SARA Title III Section 313 Supplier Information: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
CERCLA Section 102(a) Hazardous Substance: This material does not contain any chemical components with CERCLA reportable quantities.
California Proposition 65: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.
Other regulations: The product is classified and labelled in accordance with EC directives or respective national laws. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended.
National regulations: Follow national regulation for work with chemical agents.
Chemical Safety Assessment carried out: No.

Section 16: Other Information

Indication of changes: GHS aligned.
Relevant classification and H statements (number and full text):
H225 Highly flammable liquid and vapor.
Training instructions: Use as instructed.
Further information: This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.
Notice to readers: Employers should use this information only as a supplement to other information gathered by them, and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.