



## SAFETY DATA SHEET

### GRAVIS SP 460

According to the REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577, as amended.  
Commission Regulation (EU) 2020/878 of 18 June 2020.

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

##### 1.1. Product identifier

**Product name** GRAVIS SP 460  
**Product number** 28134

##### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Identified uses** Industrial oil

**Uses advised against** This product must not be used in applications other than those recommended in Section 1, without first seeking the advice of the supplier. This product is not to be used as a solvent or cleaning agent; for lighting or brightening fires; as a skin cleanser. This product is designed only to suit automotive applications and no provision is made for the requirements of aviation applications.

##### 1.3. Details of the supplier of the safety data sheet

**Supplier** PETROL OFİSİ A.Ş.  
Ünalan Mahallesi, Libadiye Caddesi No: 82F Kat: 2-3-4, 34700 Üsküdar/ İstanbul  
Tel: +90 850 339 1919  
Fax: +90 216 275 3854  
madeniyag@petrolofisi.com.tr

**Contact person** Customer Services: madeniyag@petrolofisi.com.tr

##### 1.4. Emergency telephone number

**Emergency telephone** Madeni Yağ Müşteri Hizmetleri: 0850 339 19 19 (mesai saatleri)

**National emergency telephone number** Emergency Medical Services: 112

#### SECTION 2: Hazards identification

##### 2.1. Classification of the substance or mixture

###### Classification (EC 1272/2008)

**Physical hazards** Not Classified  
**Health hazards** Not Classified  
**Environmental hazards** Not Classified

##### 2.2. Label elements

**Hazard statements** EUH208 Contains Long chain alkyl amine. May produce an allergic reaction.

##### 2.3. Other hazards

Not applicable.

#### SECTION 3: Composition/information on ingredients

##### 3.2. Mixtures

**Composition comments** Some substances are not classified by legislation. They are self classified by the manufacturer. The DMSO extract by IP 346 of the oil is less than 3%



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**Ingredient notes** If REACH registration numbers do not appear the substance is either exempt from registration, does not meet the minimum volume threshold for registration, the registration date has not yet come due or this information is proprietary.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

<b>General information</b>	Get medical attention if any discomfort continues.
<b>Inhalation</b>	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention if any discomfort continues.
<b>Ingestion</b>	Do not induce vomiting. Remove affected person from source of contamination. Get medical attention if any discomfort continues.
<b>Skin contact</b>	Remove affected person from source of contamination. Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.
<b>Eye contact</b>	Remove affected person from source of contamination. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes and get medical attention.
<b>Protection of first aiders</b>	First aid personnel should wear appropriate protective equipment during any rescue.

#### 4.2. Most important symptoms and effects, both acute and delayed

<b>General information</b>	See Section 11 for additional information on health hazards.
<b>Inhalation</b>	No adverse effects known.
<b>Ingestion</b>	No specific symptoms known.
<b>Skin contact</b>	No specific symptoms known.
<b>Eye contact</b>	Causes eye irritation.

#### 4.3. Indication of any immediate medical attention and special treatment needed

<b>Notes for the doctor</b>	Treat symptomatically.
<b>Specific treatments</b>	Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

<b>Suitable extinguishing media</b>	The product is not flammable. Carbon dioxide (CO <sub>2</sub> ). Foam. Dry chemicals. Water spray.
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.

#### 5.2. Special hazards arising from the substance or mixture

<b>Specific hazards</b>	Avoid breathing fire gases or vapours. Ventilate closed spaces before entering them.
<b>Hazardous combustion products</b>	Carbon dioxide (CO <sub>2</sub> ). Carbon monoxide (CO). A complex mixture of airborne solids, liquids and gases can be released.

#### 5.3. Advice for firefighters

<b>Protective actions during firefighting</b>	Avoid breathing fire gases or vapours.
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**Special protective equipment for firefighters** Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

**Personal precautions** Wear protective clothing as described in Section 8 of this safety data sheet.

**For non-emergency personnel** Necessary precautions should be taken to ensure that non-educated personnel do not intervene.

**For emergency responders** Wear protective clothing as shown in section 8 of this safety data sheet. Notification: In case of spillage, notify the local authorities as appropriate or as necessary. Stop the leakage source if it can be done without risk. Limit spillage to prevent further contamination of soil, surface or ground water. Remove any spilled material as soon as possible by following the precautions in the section Exposure Controls / Personal Protection. Use suitable techniques such as non-flammable absorbent materials or pumping. When possible or appropriate, remove the contaminated soil from the area. Place contaminated products in disposable boxes and dispose of in accordance with regulations. If a heated material is spilled, allow it to cool before handling with disposal methods.

#### 6.2. Environmental precautions

**Environmental precautions** Wear protective clothing as described in Section 8 of this safety data sheet.

#### 6.3. Methods and material for containment and cleaning up

**Methods for cleaning up** Stop leak if possible without risk. Absorb in vermiculite, dry sand or earth and place into containers. Flush contaminated area with plenty of water. Avoid the spillage or runoff entering drains, sewers or watercourses. Collect and place in suitable waste disposal containers and seal securely. Label the containers containing waste and contaminated materials and remove from the area as soon as possible.

#### 6.4. Reference to other sections

**Reference to other sections** For personal protection, see Section 8. See Section 1 for emergency contact information. For waste disposal, see Section 13. See Section 7 for more information on safe handling. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

**Usage precautions** Avoid spilling. Provide adequate ventilation.

**Advice on general occupational hygiene** Good personal hygiene procedures should be implemented. Avoid breathing vapors / mist. Do not eat, drink or smoke when using this product. Wash after use and before eating, smoking and using the toilet.

#### 7.2. Conditions for safe storage, including any incompatibilities

**Storage precautions** Store in tightly-closed, original container in a dry, cool and well-ventilated place. Keep only in the original container. Keep away from food, drink and animal feeding stuffs.

**Storage class** Chemical storage.

#### 7.3. Specific end use(s)

**Specific end use(s)** The identified uses for this product are detailed in Section 1.2.

**Usage description** The product must be used as specified in the data sheet.

### SECTION 8: Exposure controls/Personal protection

#### 8.1. Control parameters

**Occupational exposure limits**



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No other information known.

<b>Ingredient comments</b>	WEL = Workplace Exposure Limits
<b>Biological limit values</b>	No information available.
<b>DNEL</b>	No information available.
<b>DMEL</b>	No information available.
<b>PNEC</b>	No information available.

### 8.2. Exposure controls

#### Protective equipment



<b>Appropriate engineering controls</b>	Provide adequate ventilation. Avoid inhalation of vapours. Observe any occupational exposure limits for the product or ingredients.
<b>Personal protection</b>	The effectiveness of personal protective equipment, together with other elements, depends on the degree of ventilation. Depending on the particular situation in question, Get professional support.
<b>Eye/face protection</b>	Use safety goggles and face shield in case of splash risk.
<b>Hand protection</b>	Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible.
<b>Other skin and body protection</b>	Wear appropriate clothing to prevent any possibility of skin contact.
<b>Hygiene measures</b>	Provide eyewash station. Do not smoke in work area. Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.
<b>Respiratory protection</b>	Respiratory protection may be required if excessive airborne contamination occurs. Use appropriate respiratory protection if there is the potential to exceed the exposure limits.
<b>Thermal hazards</b>	If there is a risk of contact with hot product, all protective equipment worn should be suitable for use with high temperatures.
<b>Environmental exposure controls</b>	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. Store in a demarcated bunded area to prevent release to drains and/or watercourses. Residues and empty containers should be taken care of as hazardous waste according to local and national provisions. Keep container tightly sealed when not in use.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

<b>Appearance</b>	Liquid.
<b>Colour</b>	Yellow.
<b>Odour</b>	Characteristic.
<b>Odour threshold</b>	No specific test data are available.



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<b>pH</b>	Scientifically unjustified.
<b>Melting point</b>	No specific test data are available.
<b>Initial boiling point and range</b>	No specific test data are available.
<b>Flash point</b>	258°C OC (Open cup).
<b>Evaporation rate</b>	No specific test data are available.
<b>Evaporation factor</b>	No specific test data are available.
<b>Flammability (solid, gas)</b>	No specific test data are available.
<b>Upper/lower flammability or explosive limits</b>	No specific test data are available.
<b>Other flammability</b>	No specific test data are available.
<b>Vapour pressure</b>	No specific test data are available.
<b>Vapour density</b>	No specific test data are available.
<b>Relative density</b>	0,86 g/ml @ 15°C
<b>Bulk density</b>	No specific test data are available.
<b>Solubility(ies)</b>	Hydrocarbons.
<b>Partition coefficient</b>	No specific test data are available.
<b>Auto-ignition temperature</b>	No specific test data are available.
<b>Decomposition Temperature</b>	No specific test data are available.
<b>Viscosity</b>	~460 cSt @ 40°C
<b>Explosive properties</b>	No specific test data are available.
<b>Explosive under the influence of a flame</b>	No specific test data are available.
<b>Oxidising properties</b>	Not known.
<b>Comments</b>	No specific test data are available.
<b>Particle characteristic</b>	Not applicable
<b>9.2. Other information</b>	
<b>Other information</b>	No information required.
<b>Refractive index</b>	No specific test data are available.
<b>Particle size</b>	No specific test data are available.
<b>Molecular weight</b>	No specific test data are available.
<b>Volatility</b>	No specific test data are available.
<b>Saturation concentration</b>	No specific test data are available.
<b>Critical temperature</b>	No specific test data are available.
<b>Volatile organic compound</b>	No specific test data are available.



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### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

**Reactivity** No dangerous reaction known under conditions of normal use

#### 10.2. Chemical stability

**Stability** Stable at normal ambient temperatures and when used as recommended.

#### 10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions** Under normal conditions of storage and use, no hazardous reactions will occur.

#### 10.4. Conditions to avoid

**Conditions to avoid** Avoid excessive heat for prolonged periods of time. Avoid contact with strong oxidising agents.

#### 10.5. Incompatible materials

**Materials to avoid** Strong oxidising agents.

#### 10.6. Hazardous decomposition products

**Hazardous decomposition products** Fire creates: Carbon monoxide (CO).

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Information on hazard classes as defined in Regulation (EC) No 1272/2008

**Other health effects** Based on available data the classification criteria are not met.

**Toxicological effects** No information available.

#### Acute toxicity - oral

**Summary** Based on available data the classification criteria are not met.

**Notes (oral LD<sub>50</sub>)** Based on available data the classification criteria are not met.

#### Acute toxicity - dermal

**Summary** Based on available data the classification criteria are not met.

**Notes (dermal LD<sub>50</sub>)** Based on available data the classification criteria are not met.

**ATE dermal (mg/kg)** 23,076,923.0

#### Acute toxicity - inhalation

**Summary** Based on available data the classification criteria are not met.

**Notes (inhalation LC<sub>50</sub>)** Based on available data the classification criteria are not met.

**ATE inhalation (gases ppm)** 7,692,308.0

**ATE inhalation (vapours mg/l)** 38,462.0

**ATE inhalation (dusts/mists mg/l)** 3,846.0

#### Skin corrosion/irritation

**Summary** Based on available data the classification criteria are not met.



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<b>Skin corrosion/irritation</b>	Based on available data the classification criteria are not met.
<b>Animal data</b>	Based on available data the classification criteria are not met.
<b>Human skin model test</b>	Based on available data the classification criteria are not met.
<b>Extreme pH</b>	Based on available data the classification criteria are not met.
<b>Serious eye damage/irritation</b>	
<b>Summary</b>	Eye contact may cause irritation.
<b>Serious eye damage/irritation</b>	Causes eye irritation.
<b>Respiratory sensitisation</b>	
<b>Summary</b>	Based on available data the classification criteria are not met.
<b>Respiratory sensitisation</b>	Based on available data the classification criteria are not met.
<b>Skin sensitisation</b>	
<b>Summary</b>	Based on available data the classification criteria are not met.
<b>Skin sensitisation</b>	Based on available data the classification criteria are not met.
<b>Germ cell mutagenicity</b>	
<b>Summary</b>	Based on available data the classification criteria are not met.
<b>Genotoxicity - in vitro</b>	Based on available data the classification criteria are not met.
<b>Genotoxicity - in vivo</b>	Based on available data the classification criteria are not met.
<b>Carcinogenicity</b>	
<b>Summary</b>	Based on available data the classification criteria are not met.
<b>Carcinogenicity</b>	Based on available data the classification criteria are not met.
<b>Target organ for carcinogenicity</b>	No specific target organs known.
<b>IARC carcinogenicity</b>	Not listed.
<b>NTP carcinogenicity</b>	Not listed.
<b>Reproductive toxicity</b>	
<b>Summary</b>	Based on available data the classification criteria are not met.
<b>Reproductive toxicity - fertility</b>	Based on available data the classification criteria are not met.
<b>Reproductive toxicity - development</b>	Based on available data the classification criteria are not met.
<b>Specific target organ toxicity - single exposure</b>	
<b>Summary</b>	Based on available data the classification criteria are not met.
<b>STOT - single exposure</b>	Based on available data the classification criteria are not met.
<b>Target organs</b>	No specific target organs known.
<b>Specific target organ toxicity - repeated exposure</b>	
<b>Summary</b>	Based on available data the classification criteria are not met.
<b>STOT - repeated exposure</b>	Based on available data the classification criteria are not met.



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<b>Target organs</b>	No specific target organs known.
<b>Aspiration hazard</b>	
<b>Summary</b>	Slight irritation of the respiratory tract may occur, if mists are inhaled.
<b>Aspiration hazard</b>	Based on available data the classification criteria are not met.
<b>Toxicokinetics</b>	No other information known.
<b>General information</b>	No other information known.
<b>Inhalation</b>	No other information known.
<b>Ingestion</b>	No other information known.
<b>Skin contact</b>	Skin irritation should not occur when used as recommended.
<b>Eye contact</b>	No other information known.
<b>Acute and chronic health hazards</b>	No other information known.
<b>Route of exposure</b>	No other information known.
<b>Target organs</b>	No specific target organs known.
<b>Medical symptoms</b>	No other information known.
<b>Medical considerations</b>	No other information known.

### 11.2 Information on other hazards

<b>Information on other hazards</b>	This product does not have endocrine disrupting properties.
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### SECTION 12: Ecological information

<b>Ecotoxicity</b>	Not known.
<b>12.1. Toxicity</b>	
<b>Toxicity</b>	No information available.
<b>Acute aquatic toxicity</b>	
<b>Summary</b>	No other information known.
<b>Acute toxicity - fish</b>	No other information known.
<b>Acute toxicity - aquatic invertebrates</b>	No other information known.
<b>Acute toxicity - aquatic plants</b>	No other information known.
<b>Acute toxicity - microorganisms</b>	No other information known.
<b>Acute toxicity - terrestrial</b>	No other information known.
<b>Chronic aquatic toxicity</b>	
<b>Chronic toxicity - fish early life stage</b>	No specific test data are available.
<b>Short term toxicity - embryo and sac fry stages</b>	No specific test data are available.





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<b>Chronic toxicity - aquatic invertebrates</b>	No specific test data are available.
<b>Toxicity to soil</b>	No specific test data are available.
<b>Toxicity to terrestrial plants</b>	No specific test data are available.
<b>12.2. Persistence and degradability</b>	
<b>Persistence and degradability</b>	The degradability of the product is not known.
<b>Phototransformation</b>	No specific test data are available.
<b>Stability (hydrolysis)</b>	No specific test data are available.
<b>Biodegradation</b>	No specific test data are available.
<b>Biological oxygen demand</b>	No specific test data are available.
<b>Chemical oxygen demand</b>	No specific test data are available.
<b>12.3. Bioaccumulative potential</b>	
<b>Bioaccumulative potential</b>	No specific test data are available.
<b>Partition coefficient</b>	No specific test data are available.
<b>12.4. Mobility in soil</b>	
<b>Mobility</b>	The product is immiscible with water and will spread on the water surface.
<b>Adsorption/desorption coefficient</b>	No specific test data are available.
<b>Henry's law constant</b>	No specific test data are available.
<b>Surface tension</b>	No specific test data are available.
<b>12.5. Results of PBT and vPvB assessment</b>	
<b>Results of PBT and vPvB assessment</b>	No data available.
<b>12.6 Endocrine disrupting properties</b>	
<b>Endocrine disrupting properties</b>	This product does not have endocrine disrupting properties.
<b>12.6. Other adverse effects</b>	
<b>Other adverse effects</b>	No other information known.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

<b>General information</b>	The generation of waste should be minimised or avoided wherever possible. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labelled with their contents.
<b>Disposal methods</b>	Collect and place in suitable waste disposal containers and seal securely. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.
<b>Waste class</b>	The waste code classification is to be carried out according to the European Waste Catalogue (EWC).

### SECTION 14: Transport information



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**General** The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

### 14.1. UN number

#### UN number or ID number

Not applicable.

### 14.2. UN proper shipping name

Not applicable.

### 14.3. Transport hazard class(es)

No transport warning sign required.

#### Transport labels

No transport warning sign required.

### 14.4. Packing group

Not applicable.

### 14.5. Environmental hazards

#### Environmentally hazardous substance/marine pollutant

No.

### 14.6. Special precautions for user

Not applicable.

### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

**Maritime transport in bulk according to IMO instruments** Not applicable

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable.

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

**National regulations** T. C. Regulation on the Classification, Labeling and Packaging of Substances and Mixtures No. 28848, dated 11 December 2013, by the Ministry of Environment and Urbanization.  
According to Regulation (EC) No 1907/2006, Annex II, as amended.

**EU legislation** Dangerous Preparations Directive 1999/45/EC.  
Dangerous Substances Directive 67/548/EEC.  
Council Directive of 20 May 1975 on the approximation of the laws of the Member States relating to aerosol dispensers (75/324/EEC) (as amended).  
Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents (as amended).  
Commission Regulation (EU) No 453/2010 of 20 May 2010.

**Guidance** Safety Data Sheets for Substances and Preparations.

**Health and environmental listings** Hazardous ingredients are listed.



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### 15.2. Chemical safety assessment

Not applicable.

### SECTION 16: Other information

<b>Abbreviations and acronyms used in the safety data sheet</b>	<p>E.U. : European union  DMSO: Dimethyl sulfoxide  KKE: Personal protective equipment  STEL: Short term exposure limit  T.C. : Republic of Turkey  TWA: Workplace exposure limits  UZEM: National Poison Information Center  ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.  CAS: Chemical Abstracts Service.  DNEL: Derived No Effect Level.  GHS: Globally Harmonized System.  IATA: International Air Transport Association.  IMDG: International Maritime Dangerous Goods.  Kow: Octanol-water partition coefficient.  LC<sub>50</sub>: Lethal Concentration to 50 % of a test population.  LD<sub>50</sub>: Lethal Dose to 50% of a test population (Median Lethal Dose).  PBT: Persistent, Bioaccumulative and Toxic substance.  REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006.  RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.  vPvB: Very Persistent and Very Bioaccumulative.  IARC: International Agency for Research on Cancer.  MARPOL 73/78: International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978.  BCF: Bioconcentration Factor.  BOD: Biochemical Oxygen Demand.  EC<sub>50</sub>: 50% of maximal Effective Concentration.  LOAEL: Lowest Observed Adverse Effect Level.  NOEC: No Observed Effect Concentration.</p>
<b>Classification abbreviations and acronyms</b>	<p>Asp. Tox. = Aspiration hazard  Skin Corr. = Skin corrosion  Aquatic Acute = Hazardous to the aquatic environment (acute)  Aquatic Chronic = Hazardous to the aquatic environment (chronic)  Eye Dam. = Serious eye damage  Repr. = Reproductive toxicity</p>
<b>General information</b>	<p>MSDS Distribution : The information in this document should be made available to all who may handle the product. Uses and Restrictions : This product must not be used in applications other than those recommended in Section 1, without first seeking the advice of the supplier. This product is not to be used as a solvent or cleaning agent; for lighting or brightening fires; as a skin cleanser. This document contains important information to ensure the safe storage, handling and use of this product. The information in this document should be brought to the attention of the person in your organisation responsible for advising on safety matters. Only trained personnel should use this material. Disclaimer : This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.</p>



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<b>Key literature references and sources for data</b>	This SDS is prepared based on the information received from raw material suppliers.
<b>Classification procedures according to Regulation (EC) 1272/2008</b>	Aquatic Chronic 4 - H413: On basis of test data., Calculation method.
<b>Training advice</b>	Untrained personnel should not use.
<b>Revision comments</b>	Revised classification.
<b>Issued by</b>	Sena Ezgi Selçuk Chemical Assessment Specialist (Certificate No: KDU01.29.06 17.12.2027)
<b>Revision date</b>	02/07/2024
<b>Revision</b>	3
<b>Supersedes date</b>	17/06/2011
<b>SDS number</b>	10267
<b>Hazard statements in full</b>	EUH208 Contains Long chain alkyl amine. May produce an allergic reaction.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.