

MATERIAL SAFETY DATA SHEET — 16 Sections

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier MIG Transit Spray		[WHMIS Classification] N/A	
Product Use Used to protect MIG gun consumables and weld zone from welding spatters			
Manufacturer's Name ELICA Ltd		Supplier's Name	
Street Address HALE 13-b-85		Street Address	
City JAMBOL	Province JAMBOL	City	Province
Postal Code 8600	Emergency Telephone +359 112	Postal Code	Emergency Telephone
Date MSDS Prepared Thursday 19 June 2008	MSDS Prepared By ELICA Ltd		Phone Number +359 878 100 195

SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients (<i>specific</i>)	%	CAS Number	LD ₅₀ of Ingredient (<i>specify species and route</i>)	LC ₅₀ of Ingredient (<i>specify species</i>)
Liquid hydrocarbons	>60	N/A	Not toxic	Not toxic
Mineral oil	10-30	64742-65-0	N/A	N/A
Performance additives	1-10	N/A	N/A	N/A

SECTION 3 — HAZARDS IDENTIFICATION

Skin Contact
 Skin Absorption
 Eye Contact
 Inhalation
 Ingestion

Route of Entry

[

[Emergency Overview]

This product is not classified as dangerous/hazardous/ for supply or conveyance. An exposure limit applies Prolonged and repeated skin contact may cause defatting/irritation/ of the skin and may give rise to skin conditions including dermatitis. The DMSO extract by IP346 of the oil is less than 3%. Consequently, it is not classified as a carcinogen. The oil does not biodegrade in anaerobic conditions and hence can be persistent. It contains components which have a high potential to bioaccumulate. Owing to its physical properties, spillages can lead to fouling of flora, fauna and the environment. Generally not hazardous in normal handling, however good work practices should always be used.

WHMIS Symbols]

Potential Health Effects:

INGESTION

Accidental ingestion of the material may be harmful. Not a hazard with normal industrial usage.

EYE

May cause some discomfort. If there is a risk of splashing while handling the liquid, suitable eye protection should be used. May cause irritation or burning.

SKIN

Skin contact presents no acute health hazard except in the case of high pressure injection injuries. These can lead to the loss of the affected limbs if not treated immediately and properly. Avoid contact with the skin by the use of suitable protective clothing. Where skin contact is unavoidable a high standard of personal hygiene must be practiced. May cause irritation.

INHALED

This product is not toxic. Under normal conditions of use inhalation of vapours or mist is not feasible or likely to present an acute hazard. Care should be taken to keep exposures below applicable occupational exposure limits by the use of general or local ventilation. May cause irritation to respiratory tract.

CHRONIC HEALTH EFFECTS

Danger of cumulative effects. Primary route of exposure is usually by skin contact. As with any chemical product, contact with unprotected bare skin; inhalation of vapour, mist or dust in work place atmosphere; or ingestion in any form, should be avoided by observing good occupational work practice.

SECTION 4 — FIRST AID MEASURES

Skin Contact

Does not normally require first aid, but fluid soaked clothing should be removed, and contaminated skin washed with soap and water. If persistent irritation occurs, medical advice should be sought without delay.

<p>Eye Contact</p> <p>Flush the eye with copious amounts of water. If irritation persists seek medical attention.</p> <p>Inhalation</p> <p>Remove to fresh air. If rapid recovery does not occur obtain medical attention.</p> <p>Ingestion</p> <p>DO NOT INDUCE VOMITING. If ingestion is suspected, wash out the mouth with water and send to hospital immediately. Show this MSDS to the physician drawing attention to the section 11 below.</p>
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SECTION 5 — FIRE FIGHTING MEASURES

<p>Flammable</p> <p><input checked="" type="checkbox"/> Yes Combustible <input type="checkbox"/> No</p>	<p>If yes, under which conditions?</p> <p>Slight hazard when exposed to heat or flame. Heating may cause expansion or decomposition leading to violent rupture of containers.</p>	
<p>Means of Extinction</p> <p>Water spray or fog, Foam, Dry chemical powder, Carbon dioxide, foam, earth. Never use a water jet. Alert Fire Brigade and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves. Prevent, by any means available, spillage from entering drains or water courses. from path of fire.</p>		
<p>Flashpoint (°C) and Method</p> <p>>170</p>	<p>Upper Flammable Limit (% by volume)</p> <p>N/A</p>	<p>Lower Flammable Limit (% by volume)</p> <p>N/A</p>
<p>Autoignition Temperature (°C)</p> <p>>320</p>	<p>Explosion Data — Sensitivity to Impact</p> <p>Mist containing combustible materials may be explosive.</p>	<p>Explosion Data — Sensitivity to Static Discharge</p> <p>N/A</p>
<p>Hazardous Combustion Products</p> <p>On combustion, may emit toxic fumes of carbon monoxide/CO/. May emit acrid smoke. Other combustion products include carbon dioxide/CO2/</p>		
<p>[NFPA]</p>		

Leak and Spill Procedures

SECTION 6 — ACCIDENTAL RELEASE MEASURES

<p>Personal precautions: Protective gloves and clothing should be worn.</p>
<p>Environmental precautions: Prevent entry to drains or watercourses.</p>
<p>Methods for cleaning: Soak up with a suitable medium, such as sand or earth. The liquid should be reclaimed directly or in an adsorbent medium and then transferred to suitable, clearly marked containers and disposed of in accordance with local requirements of the Environmental Protection.</p>
<p>Isolate hazard area and deny entry to unnecessary or unprotected personnel. Contain spilled liquid with sand or earth. Place in disposal container. Avoid runoff into storm sewers and ditches which lead to waterways.</p>

SECTION 7 — HANDLING AND STORAGE

Storage Requirements

Store in original containers. Keep containers securely sealed. No smoking, naked lights or ignition sources. Store in a cool, dry, well ventilated area. Store away from incompatible materials and foodstuff containers. Protect containers against physical damage and check regularly for leaks. Observe manufacturer's storing and handling recommendations. Avoid storage with oxidisers.

Handling Procedures and Equipment

Limit all unnecessary personal contact. Wear protective clothing when risk of exposure occurs. Use in a well ventilated area. When handling do not eat, drink or smoke. Always wash hands with soap and water after handling. Avoid physical damage to containers. Use good occupational work practice. Observe manufacturer's storing and handling recommendations. Check all containers are clearly labelled and free from leaks.

SECTION 8 — EXPOSURE CONTROL / PERSONAL PROTECTION

Exposure Limits-5mg/m3 TLW_TWA/AGCIH/ 10mg/m3 STEL/AGCIH/ ;5mg/m3 PEL/OSHA/	<input type="checkbox"/>
Specific Engineering Controls (such as ventilation, enclosed process) None under normal operating conditions	Other (speci
Human exposure to oil mist alone has been demonstrated to cause health effects except at levels above 5mg/m3/this applies to particulates sampled by a method that does not collect vapour/. It is not advisable to apply this standard to oils containing containing unknown concentrations and types of additive.	
Personal Protective Equipment <input type="checkbox"/> Gloves <input type="checkbox"/> Respirator <input type="checkbox"/> Eye <input type="checkbox"/> Footwear <input type="checkbox"/> Clothing <input type="checkbox"/> r	
If checked, please specify type GLOVES: No special equipment needed when handling small quantities. Wear chemical protective gloves, eg, PVC.	
Respirator: Not required under normal use. Use local ventilation. Use NIOSH/MSHA approved respirators. EYE :Glasses/Googles. Footwear: Not special requirements under normal use. Clothing: Wear standard work clothing.	

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Physical State Liquid	Odour and Appearance Amber liquid with a pleasant odour.	Odour Threshold (ppm) N/A
Specific Gravity >0.85	Vapour Density (air = 1) >1	Vapour Pressure (mmHg) <0.1kpa
Evaporation Rate N/A	Boiling Point (°C) >200	Freezing Point (°C) N/A
pH N/A	Coefficient of Water/Oil Distribution N/A	[Solubility in Water] Not

SECTION 10 — STABILITY AND REACTIVITY

Chemical Stability YES under normal conditions. <input type="checkbox"/> Yes <input type="checkbox"/> No	If no, under which conditions? Product is considered stable. Hazardous polymerisation will not occur. Stable under normal temperatures and pressures. Hazardous polymerization will not occur under normal conditions.
Incompatibility with Other Substances N/A <input type="checkbox"/> Yes <input type="checkbox"/> No	If yes, which ones? N/A. Strong oxidising agents.

Reactivity, and under what conditions?

Hazardous Decomposition Products The following substances may be expected from normal combustion: CO, CO₂, H₂O, Particulate matter, Polycyclic aromatic hydrocarbons, Unburned hydrocarbons, Unidentified organic compounds, Nitrogen oxides.

SECTION 11 — TOXICOLOGICAL INFORMATION

Effects of Acute Exposure: Not available. Refer to individual constituents. Unless otherwise specified data from Register of Toxic Effects of Chemical Substances.	
LIQUID HYDROCARBONS: No significant acute toxicological data identified in literature search.	
MINERAL OIL: Toxicity and irritation data is related to chemical components and varies as does composition and source of the original crude. A small but definite risk of occupational skin cancer occurs in workers exposed to persistent skin contamination by oils over a period of years. This risk has been attributed to the presence of certain polycyclic aromatic hydrocarbons. Petroleum oils which are solvent refined/extracted or severely hydrotreated, contain very low concentrations of both.	
Effects of chronic exposure: Not available. Refer to individual constituents. Unless otherwise specified data from Register of Toxic Effects of Chemical Substances.	
LIQUID HYDROCARBONS: No significant acute toxicological data identified in literature search.	
MINERAL OIL: Toxicity and irritation data is related to chemical components and varies as does composition and source of the original crude. A small but definite risk of occupational skin cancer occurs in workers exposed to persistent skin contamination by oils over a period of years. This risk has been attributed to the presence of certain polycyclic aromatic hydrocarbons. Petroleum oils which are solvent refined/extracted or severely hydrotreated, contain very low concentrations of both.	
Irritancy of Product See above.	
Skin sensitization See above.	Respiratory sensitization N/A
Carcinogenicity-IARC N/A	Carcinogenicity - ACGIH N/A
Reproductive toxicity N/A	Teratogenicity N/A
Embryotoxicity N/A	Mutagenicity N/A
Name of synergistic products/effects N/A	

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SECTION 12 — ECOLOGICAL INFORMATION

[Aquatic Toxicity]

No data for MIG Transit Spray. Refer to data for ingredients as follows:

LIQUID HYDROCARBONS:

The lower molecular weight hydrocarbons are expected to form a slick on the surface of water after release in calm sea conditions. This is expected to evaporate and enter the atmosphere

where it will be degraded through reaction with hydroxy radicals. Some of the material will become associated with benthic sediments, and it is likely to be spread over a fairly wide area of

sea floor. Marine sediments may be either aerobic or anaerobic. The material, in probability is biodegradable, under aerobic conditions. Evidence also suggests that the hydrocarbons may be

degradable under anaerobic conditions although such degradation in benthic sediments may be a relatively slow process. Under aerobic conditions the material will degrade to water and

carbon dioxide, while under anaerobic processes it will produce water, methane and carbon dioxide. Based on test results, as well as theoretical considerations, the potential species

such as blue mussel, daphnia, freshwater green algae, marine copepods and amphipods.

MINERAL OIL:

No data for mineral oil

SECTION 13 — DISPOSAL CONSIDERATIONS

Waste Disposal

Consult manufacturer for recycling options and recycle when possible. Consult Waste Management for disposal.	
Incinerate residue at an approved site. Recycle containers if possible, or dispose of in an authorised landfill.	

SECTION 14 — TRANSPORT INFORMATION

TDG:None

Special Shipping Information:Shipping Name -None

[IMO] :None IMDG Page Number:None

[DOT]:None

[CAO]:None

PIN:None

SECTION 15 — REGULATORY INFORMATION

[WHMIS Classification] <i>None</i>	[OSHA] None
SERA] <i>None</i>	[TSCA] None
<i>This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by CPR</i>	

SECTION 16 — OTHER INFORMATION

This information is based on our available data. This is not a s a guarantee for some specific characteristic of the product and do not give reasons for contractual relations.
This MSDS is based on data from MSDSEs of the components of this product.
PAH/IP346 DMSO/<2% Not cancer 94/69/EEC
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