

**1. PRODUCT AND COMPANY IDENTIFICATION**

**Product identifier:** SOLV B  
**Company:** Eurostar Products Graphics and With. Visual Ltd.  
**Address:** Estrada de Jaguari, 559/621  
**City:** Santana de Parnaiba - SP  
**ZIP Code:** 06533-100  
**Telephone:** (11) 4156-2814 (Factory) / (11) 2133-2155 (Commercial)  
**Tel. emergency:** 0800 740 4000 / (11) 3889- 1000  
**Email:** Venda@eurostargraficos.com.br

**Main uses recommended:** Product of use industrial.

**2. HAZARDS IDENTIFICATIONS**
**2.1 Classification of product chemical**

Flammable Liquids – Category 2  
 Toxicity acute – Dermal – Category 2  
 Skin irritation – Category 2  
 Serious eye damage – Category 2  
 Skin sensitization – Category 2  
 Toxicity the reproduction – Category 2  
 Toxicity to target organs specific – Exhibition UNIC – Category 2 AND 3  
 Danger put aspiration – Category 1  
 Dangerous to the environment aquatic – Acute – Category 2

**Pictograms:**

**Word of warning:** Danger.

Read the label carefully before using the product. Keep out of reach of children and pets. Do not ingest. Avoid contact with eyes. Wash objects and utensils used as a measure with plenty of running water before reusing them.

Do not reuse empty packaging. Keep the product in its original packaging. Use appropriate safety equipment, depending on the workplace, depending on the concentration and quantity of the substance.

- **Warning phrases:** READ THE LABEL CAREFULLY BEFORE USING THE PRODUCT. **KEEP OUT OF REACH OF CHILDREN AND PETS.** Do not ingest. Avoid inhalation, aspiration and contact with eyes.

- **Warning:** Keep the product in its original packaging. Do not mix with other products. Do not reuse the packaging for other purposes.

**Phrases of danger:** H226: Flammable liquid and vapour. H313: May be harmful in contact with skin. H315: Causes skin irritation. H317: May cause an allergic skin reaction. H318: Causes eye damage serious. H304: May be fatal if swallowed and enters airways. H361: Suspected of damaging fertility or the fetus. H373: May provoke damages to the organs put repeated exposure or prolonged. H401: Toxic to aquatic organisms.

**Phrases of precaution: Prevention**

P210: Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
 P233: Keep container tightly closed.  
 P240: Ground the container and receiver during transfers.  
 P241: Use equipment electrical/ventilation/lighting proof of explosion.  
 P242: Use only tools non-sparking.  
 P243: Avoid the accumulation of loads electrostatic.  
 P280: Use gloves protective clothing/protective clothing/eye protection/face protection.  
 P264: Wash thoroughly after handling.

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P260: Do not inhale you vapors.  
 P272: The clothes of contaminated work it cannot to go out of local of work.  
 P201: Obtain special instructions before use.  
 P202: Do not handle until you have read and understood all safety information.  
 P273: Avoid release to the environment

**Emergency Response :**

- P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P370+P378: In case of fire: Use water fog, dry chemical and carbon dioxide to extinguish. P312: Call a POISON CENTER/doctor if you feel unwell. P302+P352: IF ON SKIN: Wash with plenty of soap and water. P332+P313: If skin irritation occurs: Get medical advice/attention. P362+P364: Take off all contaminated clothing and wash before reuse. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. minutes. Node case of use of lenses contact, remove them if for easy. P333+P313: In case of irritation or skin rash: Get medical advice/attention. P308+P313: IF exposed or concerned: Get medical advice/attention. P314: Get medical advice/attention if you feel unwell. P301+P310: If swallowed: Immediately call a Poison Control Center. P331: DO NOT induce vomiting.

- **Storage:** P403+P235: Store in a well-ventilated place. Keep cool. P405: Store locked up.

**Disposition:** P501: Disposal the content/container according to Legislation Environmental current

**2.3 Others dangers what no result in one classification**

**Effects adverse the health human:** Inhalation of the product may cause irritation of the upper respiratory tract, resulting in coughing, choking sensation, burning sensation in the throat and pulmonary edema. On the skin and eyes, it may cause severe burns and possible loss of vision. On the mucosa of the mouth, esophagus and stomach, it causes burns.

**Effects environmental:** Dumping the product contaminates courses water, soil, fauna and flora. The product in contact with water or soil causes an increase in pH, altering the characteristics the local, degrading the quite environment, with damage to fauna.

**Dangers physicists and chemicals:** It reacts violently with strong acids and therefore contact should be avoided.

**Effects adverse the health human:** He can provoke pain of head, nausea, dizziness and confusion mental if inhaled in excess. .

<b>3. COMPOSITION AND INFORMATION ON INGREDIENTS</b>
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**Product Type:** Ingredient Mixture

**Chemical Nature:** Hydrocarbon

**Ingredients that contribute to the danger:**

Composition and information on ingredients	CAS	Concentration % w/w
Hexane	110-54-3	>80,0
Petroleum distillate – Composed C6	93165-19-6	<20,0

**Hazard identification:** Health hazard if not used as instructed

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**4. FIRST AID MEASURES**
**Measures of First aid**

Inhalation:	Remove the victim to a ventilated area and keep him/her at rest. Monitor the function respiratory. If the victim you are breathing with difficulty, provide oxygen. If necessary apply artificial respiration. Seek medical attention. Take this MSDS.
Contact with the skin:	Remove contaminated clothing. Do not rub the affected areas. Wash thoroughly with soap and water. Seek medical advice.
Contact with the eyes:	Wash with water current put at least 15 minutes, keeping eyelids open. Remove contact lenses when applicable. Search attention doctor immediately. Light this MSDS.
Ingestion:	Wash the mouth of the victim with water in abundance. NO INDUCE VOMITING. Seek medical attention. Take this MSDS.

**4.1 Symptoms and effects more important, acute or late**
**• Actions what must to be avoided:**

No induce the vomiting. No provide nothing for the mouth the one person unconscious.

**4.2 Notes to the doctor**

If necessary, symptomatic treatment should include, above all, supportive measures such as correction of hydroelectrolytic and metabolic disorders, in addition to respiratory assistance.

**5. FIREFIGHTING MEASURES**
**5.1 Means of extinction**

Suitable: Foam resistant the alcohol, fog of water, dust chemical and dioxide carbon (CO<sub>2</sub>).

Inappropriate: Jets of water directly on the liquid in flames.

**5.2 Dangers specific from the substance or mixture**

Liquid flammable. You vapors they can form mixtures explosives with air. He can be increase from the internal pressure of containers and reservoirs exposed to fire or heat, with risk of explosion.

**5.3 Measures of protection from the team of fight the fire**

In environments closed, to use equipment of rescue with supply of air, in addition of the equipment of adequate protection.

**6. ACCIDENTAL RELEASE MEASURES**
**6.1 Precautions special, equipment of protection and procedures of emergency**
**6.1.1 To the guys what no he does part of the services and emergency**

Flammable product. Remove all sources of ignition. Do not smoke. Do not touch damaged containers or spilled material without wearing suitable clothing. Avoid inhalation, contact with eyes and skin. Use personal protective equipment.

**6.1.2 To the guys of service of emergency**

Prevention of inhalation, contact with skin and eyes: We recommend the use of equipment of protection individual (glasses of security, protection respiratory and to the skin appropriate).

**6.2 Precautions to the quite**

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**environment**

Stop the leak if this can be done without risk. Do not direct the spilled material into any public drainage systems. Avoid the possibility of contamination of surface waters and springs. Restrict the leak to the smallest possible area. Water washout should take into account subsequent treatment of the contaminated water. Avoid water washout.

**6.3 Methods and materials to the containment and cleaning**

**Recovery:** Collect the spilled product and place it in suitable containers. Absorb the remaining product with dry sand, earth, vermiculite, or any other inert material. Place the adsorbed material in suitable containers and remove them to a safe place.

**Disposition:** Discard according to Legislation Environmental current.

**7. HANDLING AND STORAGE**

**7.1 Precautions to handling safe**

**Prevention of exhibition of worker:** Use equipment of protection individual (PPE) to avoid the direct contact with the product.

**Precautions to handling insurance:** Manipulate respecting to the rules general of security and hygiene industrial.

**Measures of hygiene:** Sanitize clothing and shoes after use. General control methods used in Industrial Hygiene should minimize exposure to the product. No eat, drink or smoking to the handle products chemicals. Separate work clothes from regular clothes.

**7.2 Conditions of storage safe, including any incompatibility**

**Measures techniques appropriate** Keep the product in a cool, dry and well-ventilated place, away from sources of heat and ignition. The storage location must have a containment basin to retain the product in case of a leak. Keep containers tightly closed and properly identified. The storage location must have an impermeable floor, free of combustible materials and a containment dike to retain the product in case of a leak. Engineering specifications must meet local regulations.

**Conditions the to be avoided:** Temperatures high. Sources of ignition. Contact with incompatible materials .

**Materials to packaging:** Avoid packaging metallic (except steel stainless steel).

**8. EXPOSURE CONTROL AND PERSONAL PROTECTION**

**8.1 Parameters of control**

**Limits of exhibition occupational** Petroleum distillate – Composed C6:  
ACGIH (TVL - TWA): 50ppm

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**8.2 Measures of control of engineering**

The use of ventilation through exhaust fans is recommended to control the emission process at the source. A safety shower with eyewash station is recommended in the product handling area.

**8.3 Measures of protection guys**

Protection respiratory:	In case of prolonged exposure or high concentrations (above occupational exposure limits), use an approved respirator in accordance with required regulations.
Protection of the eyes:	Use glasses of security.
Protection from the skin and of body:	It is recommended clothing protective suitable.
Protection of the hands:	It is recommended the use of gloves resistant the oils and chemicals .

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Aspect	Liquid transparent, translucent
Odor and limit of odor	Characteristic
pH	ND
Point of fusion/point of freezing	ND
Point of boiling initial	ND
Range of temperature of boiling	62 – 74°C
Flash Point	<0 °C
Rate of evaporation (acetate of n-Butyl = 1)	ND
Flammability (solid; gas)	ND
Limit of flammability or explosiveness	Flammable
Pressure of steam	ND
Density of steam	ND
Density relative	Approximately 0,67
Solubility	In the water: Soluble
Coefficient of partition – n- octanol/water	Hexane: Log Kow: 3,90
Temperature of self ignition	ND
Temperature of decomposition	ND
Viscosity	0,45 cSt 25°C

**10. STABILITY AND REACTIVITY**
**10.1 Reactivity**

No they are related data what determine reactivity of product.

**10.2 Stability chemical**

Stable in conditions usual of handling and storage.

**10.3 Possibility of reactions dangerous**

Incompatible with acids strong.

**10.4 Conditions the to be avoided**

Exhibition prolonged to the air and materials incompatible.

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**10.5 Materials incompatible**

Oxidants strong.

**10.6 Products dangerous from the decomposition**

In case of combustion he can to generate smokes toxic and/or irritating.

**11. TOXICOLOGICAL INFORMATION**

Toxicity acute

He can to be harmful in contact with the skin.

*Contains Hexane:*

 DL<sub>50</sub> (oral, rats): > 28710 mg/kg

 DL<sub>50</sub> (dermal, rabbits): > 5000 mg/kg

\*THE I estimated of toxicity acute (ETA) and done with basis us data available for the ingredients of the mixture and their respective concentrations.

Corrosion/irritation from the skin

Contact with the skin: Absorption dermal possible. He can cause corrosion to the skin, with burning and peeling.

Injuries eyepieces serious/irritation eyepiece

Causes serious eye damage, with tearing, redness and pain.

Awareness raising respiratory or the skin

He can provoke reactions allergic in the skin with itching and dermatitis.

Mutagenicity in cells germinative

With basis us ingredients, no and expected what present mutagenicity in germ cells.

Carcinogenicity

No and expected what present carcinogenicity.

Toxicity the reproduction

Based on the components of the mixture, is suspected of harming fertility or the fetus.

Toxicity to target organs specific – exhibition unique

THE substance no and classified as toxic to target organs specific after one unique exhibition.

Toxicity to target organs specific – repeated exposure

He can provoke damage to the system nervous central and to the cardiovascular system by repeated or prolonged exposure.

Danger of aspiration

If aspirated he can to take the manifestation of pneumonitis or chemical pneumonia.

**12. ECOLOGICAL INFORMATION**
**12.1 Ecotoxicity**

He can to be toxic to you organisms aquatic.

*Contains Hexane:*

 CL<sub>50</sub> ( *Pimephales promise* s, 96h): 2,1 mg/L

**12.2 Persistence and degradability**

No there is data available the respect from the persistence of degradability of product.

**12.3 Potential biocumulative**

AND expected potential of bioaccumulation in organisms aquatic

**12.4 Mobility on the ground**

He can affect the soil and, put percolation, degrade the quality of the waters of sheet phreatic.

**12.5 Others effects adverse**

Your presence in the water he can transmit qualities undesirable the water, harming your use, in addition to cause toxic effects to aquatic life. Due to its alkaline nature, it tends to increase the pH of the aquatic environment.

**13. DISPOSAL CONSIDERATIONS**
**13.1 Methods recommended to destination end**

Product:	They must be disposed of as hazardous waste in accordance with local legislation. Treatment and disposal must be assessed specifically for each product. Federal, state and municipal legislation must be consulted.
Remains of product:	Keep any remaining product in its original packaging and properly closed. Disposal must be carried out as established for the product. Any remaining product may be reprocessed or incinerated in appropriate facilities or sent. Check the applicable legislation on final disposal in your municipality or state.
Packaging used:	Never reuse packaging empty, then they they can contain remains of the product and must to be maintained closed and intended of agreement with the applicable legislation of your Municipality or State regarding final disposal.

**14. TRANSPORT INFORMATION**
**Regulations nationals and international:**
**Terrestrial** (railways, highways)

Resolutions No. 420 of February 12, 2004 of the National Land Transportation Agency (ANTT), *Approves the Instructions Complementary to the Regulation of Transport Terrestrial of Products Dangerous and its modifications.*

Name of Boarding: PETROLEUM DISTILLATE N.E. (HYDROCARBONS, MIXTURE)  
 Number of UN: 1268  
 Class/subclass of risk: 3  
 Number of risk: 33  
 Group of Packaging: II

**Waterway** (maritime, river, lake)

DPC - Directorate of Ports and Coasts (Transportation in Brazilian waters); Maritime Authority Standards (NORMAM); NORMAM 01/DPC: Vessels Used in Navigation on the Open Sea; NORMAM 02/DPC: Vessels Used in Inland Navigation; IMO – “International Maritime Organization”; International Maritime Dangerous Goods Code (IMDG Code)

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**Air**

ANAC – National Civil Aviation Agency – Resolution No. 129 of December 8, 2009. RBAC No. 175 – (Brazilian Civil Aviation Regulation) – Transportation of Dangerous Goods. IS No. 175-001 – Supplementary Instruction – IS. ICAO “International Civil Aviation Organization” (Organization from the Aviation Civil International) – Doc 9284-NA/905. IATA – “International Air Transport Association”. Dangerous Goods Regulation (DGR).

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**15. REGULATORY INFORMATION**

**Regulations specific to the product chemical:**

Decree Federal No. 2,657, of 3 of July of 1998. Standard ABNT-NBR 14725:2012. Law No. 12,305, of 02 of August 2010 (Policy National of Waste Solids). Decree No. 7,404, of 23 of December of 2010. Ordinance No. 229, of May 24, 2011 – Amends Regulatory Standard 26.

**Safety Phrase:**

S26 – In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S37/ 39 – Wear suitable gloves and eye/face protection

**16. OTHER INFORMATION**

**Notice:**

"To the information this MSDS represent you data current and reflects our best knowledge for the proper handling of this product under normal conditions and according to the specific application on the packaging and/or literature. Any other use of the product that involves combined use with another product or other processes is the responsibility of the user."

**Subtitles and abbreviations:**

ABNT	Association Brazilian of Standards Techniques
NBR	Standard Brazilian Regulatory
UN	Organization of the Nations United
CAS	<i>Chemical Abstracts Service</i> . – Number of record Chemical
PPE	Equipment of Protection Individual
ACGIH	<i>American Conference of Governmental Industrial Hygienists</i> – Conference Governmental American of Hygienists Industrial
TLV	<i>Threshold Limit Value</i> – Limit of Exhibition
TWA	<i>Team Weighted Average</i> – Average Weighted for the Time.
ND	No available
DL <sub>50</sub>	Dose lethal to 50% of the animals test

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Globally Harmonizes System of Classification and Labeling of Chemicals (GHS). 4. Rev. ed. New York: United Nations, 2011.

TOXNET – TOXICOLOGY DATA NETWORKING. ChemIDplus Life. Available in: < <http://sis.nlm.nih.gov/chemical.html> >. Access in September 2013.

UNITED STATES DEPARTMENT OF LABOR. Available in < <http://www.osha.gov> >. Access in March 2013.

NIOSH – NATIONAL INSTITUTE OF OCCUPATIONAL AND SAFETY. International Chemical Safety Cards. Available at < <http://www.cdc.gov/niosh> >. Accessed in September 2013.

INTERNATIONAL AGENCY FOR RESEARCH ON CANCER. Available in: < <http://monographs.iarc.fr/ENG/Classification/index.php> >. Access in September 2013.

ABNT NBR 14725:2023 – Products chemicals – Information on security, health and quite environment – <http://www.abnt.org.br>

CEATOX – Toxicological Assistance Center of the Children's Institute – HCFMUSP – <http://www.ceatox.org.br/>

The information in this safety data sheet – SDS, meets the requirements of ABNT NBR 14725-4:2023 Standard, complies with the criteria for chemical products proposed by the UN GHS and reflects our current knowledge. Its purpose is to guide the correct way to handle the specific chemical product and the procedures in case of emergency. This information cannot be used for dilutions or formulations with our product. People who handle this product must have access to this information. For any other use, exposures must be assessed so that appropriate handling practices and training programs can be established to ensure safe operations in the workplace.