

MATERIAL SAFETY DATA SHEET

SOLVENT (402) MSDS

Section 1: chemical product and company identification	
Product name	Solvent 402
APPLICATION	Cleaning & other relevant uses
Company information	Esfahan oil refinery 5th km Esfahan-Tehran high way Phone: +98 (0)3133963251 Fax: +98(0)3133964815 E-mail: MARKETING@EORC.IR

Section 2: composition	
Not available	

Section 3: Hazard identification	
Eyes	Vapor causes slight irritation of eyes and nose
Inhalation	Vapor causes coughing, distress and pulmonary edema. May cause drowsiness or dizziness
Skin	May be irritating to skin
Ingestion	May be fatal if swallowed and enter airways.

Section 4: First Aid	
Eye contact	First check the victim for contact lenses and remove if present. Flash victim's eyes with water for 20 minutes while simultaneously calling a hospital or poison control center. Do not put any ointments, oil or medication in victim's eyes without specific instructions from a physician. Immediately transport the victim after flushing eyes to a hospital even if no symptoms.
Skin contact	Immediately flood affected skin with water while removing and isolating all contaminated clothing. Gently wash all affected skin areas thoroughly with soap and water immediately call a hospital or poison control center even if no symptom (such a

	redness or irritation) develop. Immediately transport victim to the hospital for treatment after washing the affected areas.
Inhalation	Immediately leave contaminated area, take deep breath of fresh air. Immediately call a physician and be prepared to transport victim to the hospital even no symptoms (such as wheezing or coughing, shortness of breath or burning in the mouth, throat or chest) develop.
Ingestion	Do not induce vomiting. If the victim is conscious and not convulsing, give 1 or 2 glasses of water to dilute the chemical and immediately call a hospital or poison control center. Be prepared to transport the victim to hospital if advised by physician. if the victim is convulsing or unconscious, do not give anything by mouth, ensure that the victim's airway is open and lay the victim on his/her side with the head lower than the body .

Section 5 Fire and explosion	
Flammability	Highly Flammable
Auto ignition	Not available
Flash point	36.7-43
Product of combustion	CO, CO2
Fire hazards	Vapors may form explosively mixture with air. vapors travel to source of ignition and flash back. It will be easily ignited by heat, flame or sparks. Vapor explosion hazard indoor or in sewer. Runoff to sewer may create fire or explosion hazards. container may explode when heated. Its lighter than water .
Fire fighting	This product has a low flash point. Use of water spray when fighting fire may be inefficient. Small fire: dry chemical, co2,water spray or regular alcohol resistant foam Large fire: water spray, fog or regular alcohol resistant foam. Don't use straight streams. Move containers from fire area if you can do it without risk. Fire involving tank/trailer loads: fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Cool containers with flooding quantities of water until well after fire is out. withdraw immediately when in case of rising sound from venting safety devices or discoloration of tank .

Section 6: Accidental release measures

Small spill	Eliminate all ignition source. all equipment used when handling the product must be grounded. do not touch or walk through spilled material. Stop leak if you can do it. Without risk. Prevent entry in to waterways, sewers. basements or confined areas absorb or cover with dry earth, sand or other non-combustible materials. Use non-sparking tools to collect absorbed material.
Large spill	Dike far ahead of liquid spill for later disposal. water spray may reduce vapor, but may not prevent ignition in closed spaces. Use approved respirator .

Section 7: Handling and storage

precaution	Keep away from heat. Keep away from ignition resources ground all equipment containing material. Do not breathe vapor .in case of insufficient ventilation, wear respiratory equipment.
storage	Keep container in a cool, well ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible source of ignition.

Section 8: exposure controls/ personal protection

Exposure limit	TWA: 200 mg/m3
Engineering controls	Provide exhaust ventilation or other engineering controls to keep the airborne concentration of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.
Personal protection	Boots, gloves, Full suit. Be sure to use an approved /certified respirator. In the case of large spillage: splash goggle. full suit. Vapor respirator, boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of product.

Section 9: reactivity/ stability data

Stability	The product is stable in normal ambient temperature
Incompatibility with various substances	Aliphatic hydrocarbon in this solvent might be incompatible with strong oxidizing agents
corrosion	Non-corrosive
Condition to avoid	Avoid heat

Section 10: Toxicology information	
Routs of entry	Eye contact, Inhalation, Ingestion, Dermal contact
Toxicity to animals	Not available
Toxicity to humans	Not available

Section 11: disposal consideration	
Waste from residues	<p>The product should not be allowed to enter drains, water course or soil.</p> <p>Offer surplus and non-recyclable solution to licensed disposal company.</p> <p>Waste must be classified and labeled prior to recycling or disposal.</p> <p>Dispose of as hazardous waste in compliance with local and national regulation.</p>
Contaminated packaging	Do not use empty container

Section 12: physical and chemical properties	
Physical state and appearance	Liquid
Odor	aroma
Color	Colorless
Solubility	Insoluble
Specific gravity @ 60/60F	0.77
Flash point	36.7-43
Boiling point	142
Vapor pressure	NA

Section 13: transport information	
UN NO	1268
Proper shipping name	solvent
IMCO NO	CLASS 3.3
Identification	UN1268, FLAMMABLE LIQUID. 3 PG III. EPG 128