

## 1. COMPANY AND PRODUCT IDENTIFICATION

**Product Name** : SOLVERA JT18  
**Substance Name** : normal paraffin C18, 99 wt% min  
**Application Uses** : Bio-based Solvent, Phase-changed material  
**Company Name** : Verasuwan Company Limited  
**Company Address** : 53/2, 53/8 Moo 5, Setthakij 1 Road, Nadee, Muang Samutsakorn 74000, Thailand  
**E-mail** : verasuwan@gmail.com  
**Emergency Telephone** : (+66)-34-468-801, (+66-81-403-2723)

## 2. HAZARDS IDENTIFICATION

### Emergency Overview

#### OSHA Hazards

No known OSHA hazards

#### GHS Classification

Acute toxicity, Dermal (Category 5)

Aspiration hazard (Category 1)

#### GHS Label elements, including precautionary statement



Pictogram :  
Signal word : Danger

#### Hazard statement(s)

H304 May be fatal if swallowed and enters airways.  
H313 May be harmful in contact with skin.

#### Precautionary statement(s)

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician  
P331 Do NOT inducing vomiting.

### Other hazards

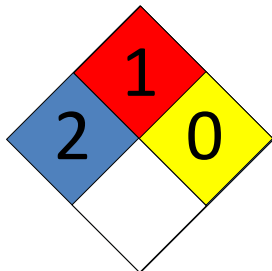
Repeated exposure may cause skin dryness or cracking.

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher

### HMIS Classification

Health hazard: 2  
Flammability: 1  
Physical hazards: 0

**NFPA Rating**



Health hazard: 2  
 Fire: 1  
 Reactivity Hazard: 0  
 Specific Hazard: NONE

**Potential Health Effects**

Inhalation May be harmful if inhaled. May cause respiratory tract irritation.  
 Skin May be harmful if absorbed through skin. May cause skin irritation.  
 Eyes May cause eye irritation.  
 Ingestion May be harmful if swallowed. Aspiration hazard if swallowed can enter lungs and cause damage.

**3. COMPOSITION AND INFORMATION ON INGREDIENTS**

Synonyms : Octadecane  
 Formula : C<sub>18</sub>H<sub>38</sub>  
 Molecular weight : 254.49 g/mol

**Hazardous ingredients according to Regulation (EC) No 1272/2008**

Component	Concentration
<b>Octadecane</b>	
CAS-No. 593-45-3 EC-No. 209-790-3	<= 100 %

**4. FIRST AID MEASURES**

**Description of first aid measures**

**General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance.

**If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**In case of skin contact**

Wash off with soap and plenty of water. Consult a physician.

**In case of eye contact**

Flush eyes with water as a precaution.

**If swallowed**

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**Most important symptoms and effects, both acute and delayed**

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11

**Indication of any immediate medical attention and special treatment needed**

No data available

## 5. FIRE FIGHTING MEASURES

**Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Special hazards arising from the substance or mixture**

Hazardous decomposition products formed under fire conditions. - Carbon oxides

**Advice for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. For personal protection see section 8.

**Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

**Methods and materials for containment and cleaning up**

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

## 7. HANDLING AND STORAGE

**Precautions for safe handling**

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist.

**Conditions for safe storage, including any incompatibilities**

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Hygroscopic substance please handle and store under inert gas.

## 8. EXPOSURE CONTROL / PERSONAL PROTECTION

### Exposure controls

#### Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

#### Personal protective equipment

##### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineer protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

##### Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

##### Full and Splash Contact

Material: Nitrile Rubber minimum layer 0.4 mm, breakthrough time 8 h.

##### Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

##### Skin and body Protection

Complete suit protecting against chemicals, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

##### Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

##### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

#### Appearance

Form	Clear Liquid
Colour	Colourless

#### Safety data

Odour	No data available
Odour Treshold	No data available
pH	No data available
Melting point/freezing point	27 to 31 °C
Initial boiling point and boiling range	317 °C - lit.
Flash point	166 °C - closed cup
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability or explosive limits	No data available
Vapour pressure	1 mmHg at 119 °C
Vapour density	8.8 (Air = 1.0)
Relative density	0.777 g/cm <sup>3</sup> at 25 °C
Water solubility	insoluble
Partition coefficient: n-octanol/water	log Pow: 10.37 at 25 °C
Auto-ignition temperature	235 °C
Decomposition temperature	No data available
Viscosity	4.03 mm <sup>2</sup> /s (20 °C)
Explosive properties	No data available
Oxidizing properties	No data available

## 10. STABILITY AND REACTIVITY

<b>Reactivity</b>	No data available
<b>Chemical stability</b>	Stable under recommended storage conditions.
<b>Possibility of hazardous reactions</b>	No data available
<b>Conditions to avoid</b>	No data available
<b>Incompatible materials</b>	Strong oxidizing agents
<b>Hazardous decomposition products</b>	Carbon monoxide (CO), Carbon dioxide (CO <sub>2</sub> )

## 11. TOXICOLOGICAL INFORMATION

### Information on toxicological effects

<b>Acute toxicity</b>	LD50 Oral - Rat - male and female - > 5.000 mg/kg (OECD Test Guideline 401)
<b>Skin corrosion/irritation</b>	No skin irritation
<b>Serious eye damage/eye irritation</b>	No eye irritation
<b>Respiratory or skin sensitization</b>	No data available
<b>Germ cell mutagenicity</b>	No data available
<b>Carcinogenicity</b>	
IARC : No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.	
<b>Reproductive toxicity</b>	No data available
<b>Specific target organ toxicity - single exposure</b>	No data available
<b>Specific target organ toxicity - repeated exposure</b>	No data available
<b>Aspiration hazard</b>	No data available

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

## 12. ECOLOGICAL INFORMATION

<b>Ecotoxicity</b>	Do NOT empty into drains.
<b>Toxicity</b>	
Toxicity to fish	LC50 - other fish - > 1.028 mg/l - 96 h (OECD Test Guideline 203)
Toxicity to daphnia and other aquatic invertebrates	EC50 - other microorganisms - > 3.000 mg/l - 48 h (ISO 14669 and PARCOM method)
Toxicity to algae	EC50 - Skeletonema costatum (marine diatom) - > 10,000 mg/l - 72 h (Octadecane) (ISO 10253)
<b>Persistence and degradability</b>	No data available
<b>Biodegradability</b>	Readily biodegradable (OECD Test Guideline 306)
<b>Bio-accumulative potential</b>	No data available
<b>Mobility in soil</b>	No data available
<b>Results of PBT and vPvB assessment</b>	
This substance/mixture contains no components considered to be either persistent, bio-accumulative and toxic (PBT), or very persistent and very bio-accumulative (vPvB) at levels of 0.1% or higher.	
<b>Other adverse effects</b>	No data available

### 13. DISPOSAL CONSIDERATIONS

**Waste treatment methods**

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

**Product**

Offer surplus and non-recyclable solutions to a licensed disposal company.

**Contaminated packaging**

Dispose of as unused product.

### 14. TRANSPORT INFORMATION

**UN number**

ADR/RID: -

IMDG: -

IATA: -

**UN proper shipping name**

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

**Transport hazard class(es)**

ADR/RID: -

IMDG: -

IATA: -

**Packaging group**

ADR/RID: -

IMDG: -

IATA: -

**Environmental hazards**

ADR/RID: no

IMDG Marine pollutant: no

IATA: no

**Special precautions for user**

No data available

### 15. Regulatory Information

**Safety, health and environmental regulations/legislation specific for the substance or mixture**

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

**Chemical safety assessment**

For this product a chemical safety assessment was not carried out

### 16. Other Information

Full text of H-Statements referred to under sections 2 and 3.

H304 May be fatal if swallowed and enters airways.

H313 May be harmful in contact with skin.