# NEVASTANE SH

Aceite sintético (PAO) para compresores, neumático e hidráulico, adecuado para contacto incidental con los alimentos.

## APLICACIONES

- Los aceites **NEVASTANE SH** son recomendados en la industria de procesos de alimentos, para la lubricación de compresores de aire, bombas de vacío y sistemas hidráulicos especialmente operando en baja temperatura.
- La formulación de **NEVASTANE SH**, es 100 % sintética base PAO, lo cual provee superior protección y un servicio prolongado en la lubricación de equipos.

## ESPECIFICACIONES

- La formulación de los aceites **NEVASTANE SH** cumple con la FDA capitulo 21 CFR, 178.3570.
- Los aceites **NEVASTANE SH** están registrados en la **NSF H1**
  NEVASTANE SH 32: No. 147292; NEVASTANE SH 46: No. 147293
  NEVASTANE SH 68: No. 147294; NEVASTANE SH 100: No. 147295
- Los aceites NEVASTANE SH tienen registro **Kosher** e **ISO 21469**
- Especificaciones internacionales: ISO 6743-4HV.

## VENTAJAS

- **NEVASTANE SH** se recomienda para su uso donde sea posible el contacto accidental con alimentos. Eso evita problemas de contaminación como es requerido por el sistema HACCP.
- Formulación 100% sintética.
- Amplio rango de temperatura.
- Significante incremento en intervalo de cambio.

**Total México, S.A. de C.V.**
Av. 8 de Julio 2462, Zona Industrial, CP 44940. Guadalajara, Jalisco, México
Conmutador. (0133) 3812-2300, Fax. (0133) 3810-6264
México (0155) 5311-3161 - Monterrey (0181) 8334-6381
www.total.com.mx

# NEVASTANE SH

Food industry

## CARACTERISTICAS

| CARACTERISTICAS | METODO | UNIDADES | NEVASTANE SH | | | |
|---|---|---|---|---|---|---|
| | | | 32 | 46 | 68 | 100 |
| Apariencia | Visual | | Liquido claro y brillante | | | |
| Densidad a 15°C | ISO 12185 | | 835 | 837 | 848 | 849 |
| Viscosidad Cinemática a 40°C | ISO 3104 | cSt | 32 | 46 | 68 | 100 |
| Viscosidad Cinemática a 100 °C | ISO 3104 | cSt | 6.1 | 7.9 | 10.8 | 14.7 |
| Indice de viscosidad | ISO 3104 | | 135 | 135 | 140 | 145 |
| Punto de inflamación C.O.C. | ISO 2592 | °C | 245 | 260 | 260 | 260 |
| Punto de escurrimiento | ISO 3016 | °C | -51 | -48 | -42 | -39 |
| Color | ISO 2049 | | < 1 | < 1 | < 1 | < 1 |

NEVASTANE SH_V02102014

Las características mencionadas representan valores típicos como información.

**Recomendaciones:**
Almacené el producto en temperatura ambiente.
Minimice los periodos expuestos a temperaturas arriba de 35°C
Periodo de validez: 5 años desde la fecha de fabricación (sin abrir)

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# MATERIAL SAFETY DATA SHEET

**according to Regulation (EC) No. 1907/2006**

**SDS # :** 081746

# NEVASTANE SH 68

**Date of the previous version:** not applicable **Revision Date:** 2012-12-17 **Version** 1

## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product identifier

**Product name** **NEVASTANE SH 68**
**Number** B5A
**Pure substance/mixture** Mixture

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

**Identified uses** Hydraulic oil, Compressor oil, &, pneumatic tools.
**Sector of use** food industry.

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

**Supplier**

TOTAL LUBRIFIANTS
562 Avenue du Parc de L'ile
92029 Nanterre Cedex
Tél: +33 (0)1 41 35 40 00
Fax: +33 (0)1 41 35 84 71

**For further information, please contact:**

**Contact Point** HSE
**E-mail Address** rm.msds-lubs@total.com

### 1.4. Emergency telephone number

+33 1 49 00 00 49 (24h/24, 7d/7)
France - ORFILA (INRS) Tél : +33 (0)1 45 42 59 59
In France : - PARIS : Hôpital Fernand Widal 200, rue du Faubourg Saint-Denis 75475 Paris Cédex 10 , Tel : 01.40.05.48.48. - MARSEILLE : Hopital Salvator, 249 bd Ste Marguerite 13274 Marseille cedex 5, Tel : 04.91.75.25.25. - LYON : Hopital Edouard Herriot, 5 place d'Arsonvol, 69437 Lyon cedex 3, Tel : 04.72.11.69.11. - NANCY : Hopital central, 29 Av du Mal De Lattre de Tassigny, 54000 Nancy, Tel : 03.83.32.36.36 ou le SAMU : Tel ( 15 )

## 2. HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

**REGULATION (EC) No 1272/2008**
*For the full text of the H-Statements mentioned in this Section, see Section 2.2.*

**DIRECTIVE 67/548/EEC or 1999/45/EC**

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*For the full text of the R-phrases mentioned in this Section, see Section 16*

The substance/mixture is non-dangerous in accordance with Directive(s) 67/548/EEC with amendments and/or 1999/45/EC with amendments

**Symbol(s)**
Not Classified

## 2.2. Label elements

**Labelled according to** Not classified/No labelling required

**R-phrase(s)**
none

**S-phrase(s)**
none

## 2.3. Other hazards

**Physical-Chemical Properties** Contaminated surfaces will be extremely slippery.

**Environmental properties** Should not be released into the environment.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

## 3.2. Mixture

**Hazardous ingredients** Do not contain hazardous substance nor substance with european workplace exposure limits in concentration above regulatory thresholds

**Additional information** The product is made from synthetic base oils (Polyalfaolefins)

**For the full text of the R-phrases mentioned in this Section, see Section 16**
**For the full text of the H-Statements mentioned in this Section, see Section 16.**

## 4. FIRST AID MEASURES

## 4.1. Description of first-aid measures

**General advice** IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CALL A DOCTOR OR EMERGENCY MEDICAL CARE.

**Eye contact** Rinse thoroughly with plenty of water, also under the eyelids.

| | |
|---|---|
| **Skin contact** | Remove contaminated clothing and shoes. Wash skin with soap and water. Wash contaminated clothing before reuse.<br>High pressure jets may cause skin damage. In this case, the casualty should be sent immediately to hospital. |
| **Inhalation** | Move to fresh air. |
| **Ingestion** | Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately. |

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

| | |
|---|---|
| **Eye contact** | Not classified. |
| **Skin contact** | Not classified. High pressure injection of the products under the skin may have very serious consequences even though no symptom or injury may be apparent. |
| **Inhalation** | Not classified. Inhalation of vapors in high concentration may cause irritation of respiratory system. |
| **Ingestion** | Not classified. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. |

### 4.3. Indication of immediate medical attention and special treatment needed, if necessary

| | |
|---|---|
| **Notes to physician** | Treat symptomatically. |

## 5. FIRE-FIGHTING MEASURES

### 5.1. Extinguishing media

| | |
|---|---|
| **Suitable Extinguishing Media** | Carbon dioxide ($CO_2$). ABC powder. Foam. Water spray or fog. |
| **Unsuitable Extinguishing Media** | Do not use a solid water stream as it may scatter and spread fire. |

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

| | |
|---|---|
| **Special Hazard** | Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. These may be highly dangerous if inhaled in confined spaces or at high concentration. |

### 5.3. Advice for fire-fighters

| | |
|---|---|
| **Special protective equipment for fire-fighters** | Wear self-contained breathing apparatus and protective suit. |

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| | |
|---|---|
| **Other information** | Cool containers / tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. |

## 6. ACCIDENTAL RELEASE MEASURES

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

| | |
|---|---|
| **General Information** | Do not touch or walk through spilled material. Contaminated surfaces will be extremely slippery. Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. |

### 6.2. Environmental precautions

| | |
|---|---|
| **General Information** | Do not allow material to contaminate ground water system. Try to prevent the material from entering drains or water courses. Local authorities should be advised if significant spillages cannot be contained. |

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

| | |
|---|---|
| **Methods for cleaning up** | Dam up. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Keep in suitable, closed containers for disposal. |

### 6.4. Reference to other sections

| | |
|---|---|
| **Personal Protective Equipment** | See Section 8 for more detail. |
| **Waste treatment** | See section 13. |

## 7. HANDLING AND STORAGE

### 7.1. Precautions for safe handling

| | |
|---|---|
| **Advice on safe handling** | When using, do not eat, drink or smoke. For personal protection see section 8. Use only in well-ventilated areas. Do not breathe vapors or spray mist. Avoid contact with skin, eyes and clothing. |
| **Prevention of fire and explosion** | Take precautionary measures against static discharges: Ground/bond containers, tanks and transfer/receiving equipment. |
| **Hygiene measures** | Ensure the application of strict rules of hygiene by the personnel exposed to the risk of contact with the product. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Do not use abrasives, solvents or fuels. Do not dry hands with rags that have been contaminated with product. Do not put product contaminated rags into workwear pockets. |

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

**Technical measures/Storage conditions**

Keep away from food, drink and animal feedingstuffs. Keep in a bunded area. Keep container tightly closed. Keep preferably in the original container. Otherwise reproduce all indication of the regulation label on the new container. Design the installations in order to avoid accidental emissions of product (due to seal breakage, for example) onto hot casings or electrical contacts. Protect from frost, heat and sunlight. Protect from moisture.

**Materials to Avoid**

Strong oxidizing agents.

## 7.3. Specific end uses

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## 8.1. Control parameters

**Exposure limits**

Do not contain substance with european workplace exposure limits in concentration above regulatory thresholds

**Legend**

See section 16

## 8.2. Exposure controls

**Occupational Exposure Controls**

**Engineering Measures**

Apply technical measures to comply with the occupational exposure limits. When working in confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and wear the recommended equipment.

**Personal Protective Equipment**

**General Information**

If the product is used in mixtures, it is recommended that you contact the appropriate protective equipment suppliers. These recommendations apply to the product as supplied.

**Respiratory protection**

None under normal use conditions. In case of vapours and aerosol formation:. Respirator with combination filter for vapour/particulate (EN 14387). The use of breathing apparatus must comply strictly with the manufacturer's instructions and the regulations governing their choices and uses.

**Eye Protection**

If splashes are likely to occur, wear:. Safety glasses with side-shields.

**Skin and body protection**

Wear suitable protective clothing. Protective shoes or boots. Long sleeved clothing.

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| | |
|---|---|
| **Hand Protection** | Hydrocarbon-proof gloves: Fluorinated rubber, Nitrile rubber. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion. If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the EC approved gloves. |

**Environmental exposure controls**

| | |
|---|---|
| **General Information** | The product should not be allowed to enter drains, water courses or the soil. |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

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

| | |
|---|---|
| **Color** | colorless |
| **Physical State @20°C** | liquid |
| **Odor** | No information available |

| Property | Values | Remarks | Method |
|---|---|---|---|
| **pH** | | Not applicable | |
| **Boiling point/boiling range** | | No information available | |
| **Flash point** | **260 °C** | | ISO 2592 |
| | 500 °F | | ISO 2592. |
| **Evaporation rate** | | No information available | |
| **Flammability Limits in Air** | | No information available | |
| **Vapor Pressure** | | No information available | |
| **Vapor density** | | No information available | |
| **Density** | 842 kg/m³ | @ 15 °C | ISO 12185 |
| **Water solubility** | | Insoluble | |
| **Solubility in other solvents** | | No information available | |
| **logPow** | | No information available | |
| **Autoignition temperature** | | No information available | |
| **Viscosity, kinematic** | 68 mm2/s | @ 40 °C | ISO 3104 |
| | 10.7 mm2/s | @ 100 °C | ISO 3104 |
| **Explosive properties** | Not explosive | | |
| **Oxidizing Properties** | Not applicable | | |
| **Possibility of hazardous reactions** | Not applicable | | |

### 9.2. Other information

## 10. STABILITY AND REACTIVITY

### 10.1. Reactivity

| | |
|---|---|
| **General Information** | No information available. |

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## 10.2. Chemical stability

**Stability** Stable under recommended storage conditions.

## 10.3. Possibility of hazardous reactions

**Hazardous Reactions** None under normal processing.

## 10.4. Conditions to Avoid

**Conditions to Avoid** Heat (temperatures above flash point), sparks, ignition points, flames, static electricity.

## 10.5. Incompatible Materials

**Materials to Avoid** Strong oxidizing agents.

## 10.6. Hazardous Decomposition Products

**Hazardous Decomposition Products** None under normal use.

## 11. TOXICOLOGICAL INFORMATION

## 11.1. Information on toxicological effects

**Acute toxicity Local effects Product Information**

**Skin contact** . Not classified. High pressure injection of the products under the skin may have very serious consequences even though no symptom or injury may be apparent.

**Eye contact** . Not classified.

**Inhalation** . Not classified. Inhalation of vapors in high concentration may cause irritation of respiratory system.

**Ingestion** . Not classified. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

**Acute toxicity - Component Information**

**Sensitization**

**Sensitization** Not classified as a sensitizer.

**Specific effects**

**Carcinogenicity** This product is not classified carcinogenic.
**Mutagenicity** This product is not classified as mutagenic.

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| | |
|---|---|
| **Reproductive toxicity** | This product does not present any known or suspected reproductive hazards. |
| **Repeated Dose Toxicity** | |
| **Subchronic toxicity** | No information available. |
| **Target Organ Effects (STOT)** | |
| **Target Organ Effects (STOT)** | No information available. |
| **Other information** | |
| **Other adverse effects** | Characteristic skin lesions (pimples) may develop following prolonged and repeated exposures (contact with contaminated clothing). |

## 12. ECOLOGICAL INFORMATION

### 12.1. Toxicity

Not classified.

**Acute aquatic toxicity - Product Information**
No information available.

**Acute aquatic toxicity - Component Information**
No information available.

**Chronic aquatic toxicity • Product Information**
No information available.

**Chronic aquatic toxicity - Component Information**
No information available.

**Effects on terrestrial organisms**
No information available.

### 12.2. Persistence and degradability

**General Information**
No information available.

### 12.3. Bioaccumulative potential

| | |
|---|---|
| **Product Information** | No information available. |
| **logPow** | No information available |
| **Component Information** | No information available. |

### 12.4. Mobility in soil

| | |
|---|---|
| **Soil** | Given its physical and chemical characteristics, the product generally shows low soil mobility. |
| **Air** | Loss by evaporation is limited. |
| **Water** | Insoluble. The product spreads on the surface of the water. |

### 12.5. Results of PBT and vPvB assessment

| | |
|---|---|
| **PBT and vPvB assessment** | No information available. |

### 12.6. Other adverse effects

| | |
|---|---|
| **General Information** | No information available. |

## 13. DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

| | |
|---|---|
| **Waste from Residues / Unused Products** | Should not be released into the environment. Dispose of in accordance with the European Directives on waste and hazardous waste. Dispose of in accordance with local regulations. |
| **Contaminated packaging** | Empty containers should be taken to an approved waste handling site for recycling or disposal. |
| **EWC Waste Disposal No.** | The following Waste Codes are only suggestions:. 13 01 11, 13 02 06. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used. |

## 14. TRANSPORT INFORMATION

| | |
|---|---|
| ADR/RID | Not regulated |
| IMDG/IMO | Not regulated |
| ICAO/IATA | Not regulated |
| ADN | Not regulated |

## 15. REGULATORY INFORMATION

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

### European Union

### International Inventories

| | |
|---|---|
| **EINECS/ELINCS** | - |
| **TSCA** | - |
| **DSL** | - |
| **ENCS** | - |
| **IECSC** | - |
| **KECL** | - |
| **PICCS** | - |
| **AICS** | - |
| **NZIoC** | - |

**Legend**

**EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances
**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List
**ENCS** - Japan Existing and New Chemical Substances
**IECSC** - China Inventory of Existing Chemical Substances
**KECL** - Korean Existing and Evaluated Chemical Substances
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances
**AICS** - Australian Inventory of Chemical Substances
**NZIoC** - New Zealand Inventory of Chemicals

### Further information

## 15.2. Chemical Safety Assessment

**Chemical Safety Assessment** No information available

## 16. OTHER INFORMATION

**Full text of R-phrases referred to under sections 2 and 3**
Not applicable

**Abbreviations, acronyms**

Legend Section 8

| | | | |
|---|---|---|---|
| + | Sensitizer | * | Skin designation |
| ** | Hazard Designation | C: | Carcinogen |
| M: | Mutagen | R: | Toxic to reproduction |

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**Revision Note** *** Indicates updated section.

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

**This safety data sheet serves to complete but not to replace the technical product sheets. The information contained herein is given in good faith and is accurate to the best of knowledge at the date indicated above.It is understood by the user that any use of the product for purposes other than those for which it was designed entails potential risk.The information given herein in no way dispenses the user from knowing and applying all provisions regulating his activity.The user bears sole liability for the precautions required when using the product.The regulatory texts indicated herein are intended to aid the user to fulfil his obligations. This list is not to be considered complete and exhaustive.It is the user's responsibility to ensure that he is subject to no other obligations than those mentioned.**

**End of the safety data sheet**

Nonfood Compounds Program Listed

January 10, 2013

Ms. Nadine Tavitian
Total Lubrifiants
562, Avenue du Parc de L'Île
92029 Nanterre Cedex
France

RE: NEVASTANE® SH 68
Category Code: H1
NSF Registration No. 147294

Dear Ms. Nadine Tavitian:

NSF has processed the application for Registration of **NEVASTANE® SH 68** to the NSF International Registration Guidelines for Proprietary Substances and Nonfood Compounds (2009), which are available at www.nsfwhitebook.org. The NSF Nonfood Compounds Registration Program is a continuation of the USDA product approval and listing program, which is based on meeting regulatory requirements including FDA 21 CFR for appropriate use, ingredient and labeling review.

**This product is acceptable as a lubricant with incidental food contact (H1) for use in and around food processing areas. Such compounds may be used on food processing equipment as a protective anti-rust film, as a release agent on gaskets or seals of tank closures, and as a lubricant for machine parts and equipment in locations in which there is a potential exposure of the lubricated part to food. The amount used should be the minimum required to accomplish the desired technical effect on the equipment. If used as an anti-rust film, the compound must be removed from the equipment surface by washing or wiping, as required to leave the surface effectively free of any substance which could be transferred to food being processed.**

NSF Registration of this product is current when the NSF Registration Number, Category Code, and Registration Mark appear on the NSF-approved product label, and the Registered product name is included in the current NSF White Book Listing of Nonfood Compounds at the NSF website (www.nsfwhitebook.org). The NSF Registration Mark can be downloaded by clicking the "Download Registration Mark" link on the NSF website (www.nsfwhitebook.org).

NSF Listing of all Registered Nonfood compounds by NSF International is not an endorsement of those compounds, or of any performance or efficacy claims made by the manufacturer.

Registration status may be verified at any time via the NSF website, at www.nsfwhitebook.org. Changes in formulation or label, without the prior written consent of NSF, will void Registration, and will supersede the on-line listing.

Sincerely,

Amanda Phelka
NSF Nonfood Compounds Registration Program

Company No: N12121