



1. PRODUCT AND COMPANY IDENTIFICATION

Product name : LACKTHERM 1364 H
Code : 10001690
Main recommended uses : Impregnation Catalyst
Address : Rodovia BR 280 - km 50
CEP 89270-000, Guaramirim - SC

Telephone : +55 47 3276-4000
Emergency telephone : 0800 720 8000
number
E-mail / site : tintas@weg.net | www.weg.net

2. HAZARD IDENTIFICATION

Mixture classification

Skin Corrosion/irritation : Category 1B
Serious eye damage/eye irritation : Category 1
Skin sensitization : Category 1
Hazardous to the aquatic environment - Chronic : Category 2

Classification according to NBR 14725-2/2009

Labelling Elements



Warning phrase : Danger

PAUMAR S.A. INDÚSTRIA E COMÉRCIO – GRUPO WEG

Rua Dr. Ulisses Guimarães, 918 – 09372-050 – Mauá – SP – Fone: + 55 (11) 4541-6100
Rodovia Br 280 – Km 50, 6.918 – Bloco A – 89270-000 – Guaramirim – SC – Fone: + 55 (47) 3276-4000
Rua Via VII, 314 – 54590-000 – Cabo de Santo Agostinho – PE – Fone: + 55 (81) 3512-3000
EMERGÊNCIA: +55 0800 720 8000 – E-mail: tintas@weg.net - www.weg.net



Hazard phrases : H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.
H317 May cause an allergic skin reaction.
H411 Toxic to aquatic life with long lasting effects.

Caution Phrases

:

Prevention:

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P264 Wash thoroughly after handling.

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Reaction:

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P333+P313 If skin irritation or a rash occurs: Get medical advice/attention.

P362+P364 Take off contaminated clothing and wash it before reuse.

P363 Wash contaminated clothing before using it again

P391 Collect spillage.

Storage:

P405 Store locked up.

Treatment and disposal of waste:

P501 Dispose of contents/container as chapter 13 of the MSDS.

3. COMPOSITION AND INFORMATION ABOUT THE INGREDIENTS

Product type: : Mixture

Ingredients that contribute to danger:

PAUMAR S.A. INDÚSTRIA E COMÉRCIO – GRUPO WEG

Rua Dr. Ulisses Guimarães, 918 – 09372-050 – Mauá – SP – Fone: + 55 (11) 4541-6100
Rodovia Br 280 – Km 50, 6.918 – Bloco A – 89270-000 – Guarimirim – SC – Fone: + 55 (47) 3276-4000
Rua Via VII, 314 – 54590-000 – Cabo de Santo Agostinho – PE – Fone: + 55 (81) 3512-3000
EMERGÊNCIA: +55 0800 720 8000 – E-mail: tintas@weg.net - www.weg.net



| Product name | CAS No. | Risck classification | Concentration [%] |
|---|------------|--|-------------------|
| FATTY ACIDS, UNSATURATED C18, DIMER, PRODUCTS OF REACTIONS WITH POLIETILENOPOLIAMINAS | 68082-29-1 | Skin Corrosion/irritation , Category 2 Skin sensitization , Category 1 Serious eye damage/eye irritation , Category 1 Hazardous to the aquatic environment - Cronic , Category 2 | <= 100 |
| TRIETHYLENETETRAMINE | 112-24-3 | Acute toxicity Dermal , Category 4 Skin Corrosion/irritation , Category 1B Skin sensitization , Category 1 Hazardous to the aquatic environment - Cronic , Category 3 | >= 10 - < 20 |

4. FIRST AID MEASURES

- Inhalation** : Take the victim to fresh air, keeping them rested and warm. If breathing is irregular or has stopped, apply artificial respiration. Do not give anything orally. Seek medical assistance immediately, bringing the product label whenever possible.
- Contact with the skin** : Remove the product with vegetal oil (cooking oil) and then wash the skin thoroughly with plenty of water. Do not use solvents or thinners. Seek medical attention in case of any irritation or other symptoms.
- Contact with the eyes** : Remove contact lenses, if wearing any. Flush the eyes with running water for at least 15 minutes, holding the eyelids apart. Seek medical assistance immediately, bringing the product label with you.
- Ingestion** : Do not provoke vomiting. Consult with a doctor immediately.
- Most important symptoms and effects, both acute and delayed** : Headaches, dizziness, fatigue and in extreme cases, loss of consciousness.
- Notes for the doctor** : Treat symptomatically. Do not induce vomiting because of risk of aspiration of gastric contents into the lungs. Gastric lavage is recommended when the patient ingests large quantities, more than 5ml of the substance in its pure form. The toxic

PAUMAR S.A. INDÚSTRIA E COMÉRCIO – GRUPO WEG

Rua Dr. Ulisses Guimarães, 918 – 09372-050 – Mauá – SP – Fone: + 55 (11) 4541-6100
 Rodovia Br 280 – Km 50, 6.918 – Bloco A – 89270-000 – Guarimirim – SC – Fone: + 55 (47) 3276-4000
 Rua Via VII, 314 – 54590-000 – Cabo de Santo Agostinho – PE – Fone: + 55 (81) 3512-3000
 EMERGÊNCIA: +55 0800 720 8000 – E-mail: tintas@weg.net - www.weg.net



potential of the quantity consumed must be evaluated in relation to the risk of aspiration during gastric lavage. Activated coal in solution could be useful. However, in some cases the coal induces vomiting.

5. FIRE-FIGHTING MEASURES

- Suitable extinguishing methods** : Water in mist form
Carbon dioxide (CO₂)
Foam alcohol resistant
Dry chemical powder
- Extinguishing methods not recommended** : Direct water jet.
- Specific dangers** : When heated above its flash point, this material will release toxic vapors and flames, and can burn in open area if exposed to an ignition source.
- Protective measures of the fire fighting team.** : The personnel involved in firefighting should wear self contained breathing apparatus with positive pressure and full protection clothes.
- Specific methods** : Evacuate and isolate the area. Approach from fire with wind at your back. Fight the fire to a secure distance. Remove the packaging of the product from the fire area if this can be made with safety. Chill sideways with water in form of fog all the closed packaging near the fire. Avoid that the resulting water from fire fighting reaches drains or waterways. Use dikes to contain this water and eliminate it according to environmental regulations.

6. SPILL / LEAK CONTROL PROCEDURES

Personal precautions, protective equipment and emergency procedures

- Environmental precautions** : Prevent the product or the water used in the service reaches waterways, channels, drains, or galleries. In case of significant spill, retain spilled liquid with inert material such as sand or earth. In appropriate, use absorbent materials such as sawdust, rags, vermiculites, etc.

Methods and materials for containment and cleaning

PAUMAR S.A. INDÚSTRIA E COMÉRCIO – GRUPO WEG

Rua Dr. Ulisses Guimarães, 918 – 09372-050 – Mauá – SP – Fone: + 55 (11) 4541-6100
Rodovia Br 280 – Km 50, 6.918 – Bloco A – 89270-000 – Guarimirim – SC – Fone: + 55 (47) 3276-4000
Rua Via VII, 314 – 54590-000 – Cabo de Santo Agostinho – PE – Fone: + 55 (81) 3512-3000
EMERGÊNCIA: +55 0800 720 8000 – E-mail: tintas@weg.net - www.weg.net



- Large spills / leaks** : Due to the high risk of contamination, it is not advisable recycling / recovery. Waste disposal in accordance with regulations (most probably controlled incineration).
- Small spills / leaks** : Stop the leak if this can be done safely. Cover up spillage in a tarp to prevent the spread by wind or rain. Use antifaiscantes tools and explosion-proof equipment properly grounded to collect the product. Place the material collected in dry, clean and properly identified containers. Cap the container loosened so removing them from the spill site. Avoid formation of dust. Remove the packaging from the spill site. If there is product disposal need refer to chapter 13
- Contain and collect the material of the leak with absorbent materials and non-combustible, such as sand, earth, vermiculite, calcined diatomite, etc. in a waste container in accordance with local regulations.
- Dust control** : Not applicable

7. HANDLING AND STORAGE

Precautions for safe handling

- Instructions for safe treatment** : Avoid contact with eyes, skin and clothes. Do not re-use packaging. Do not eat, drink or smoke during use. Do not handle the product before reading and understanding all safety precautions.
- Precautions for safe handling** : Use appropriate personal protective equipment - see section 8; The product handling should occur in places with good natural ventilation or with the presence of local exhaust ventilation; The electrical installations must comply with the International Electrical Commission Standards (IEC), ABNT Standards (Brazilian Association of Technical Standards), taking into account the results of the classification area study for the local and/or product installation.
- Use anti-sparking tools when handling the product; In transfer operations, metal containers must be used and all containers must be properly grounded to avoid sparking by the accumulation of static energy; Handle and use away from hot surfaces, sparks, open flames, and other sources of ignition. Do not smoke; Do not ingest. Avoid inhalation of vapors or smoke as well as avoid contact with eyes, skin and clothing; Eating and drinking should be prohibited in the area where the material is handled, stored and processed. Workers should wash their hands before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering food areas; After use keep the product in its original packaging, sealed; Empty containers may be hazardous and should be disposed of properly. Do not reuse the packaging; Emergency showers and eye washer should be

PAUMAR S.A. INDÚSTRIA E COMÉRCIO – GRUPO WEG

Rua Dr. Ulisses Guimarães, 918 – 09372-050 – Mauá – SP – Fone: + 55 (11) 4541-6100
 Rodovia Br 280 – Km 50, 6.918 – Bloco A – 89270-000 – Guarimirim – SC – Fone: + 55 (47) 3276-4000
 Rua Via VII, 314 – 54590-000 – Cabo de Santo Agostinho – PE – Fone: + 55 (81) 3512-3000
 EMERGÊNCIA: +55 0800 720 8000 – E-mail: tintas@weg.net - www.weg.net



installed in the use and storage places.
Do not handle the product until you have read and understood all safety precautions contained in this document.

Fire protection : Only use in well-ventilated locations, to prevent accumulation of vapors in explosive concentrations. All conductive elements of the system, in contact with the product, must be electrically grounded. Keep away from heat and sources of ignition. Tools that do not produce sparks should be used. Do not smoke.

Storage conditions

Storage conditions : The electrical installation must comply with NEC (National Electrical Code) or IEC (International Electrical Commission) standards and/or those of the ABNT (Brazilian Association of Technical Standards). The floor of the storage area must be impermeable, non-combustible and must have ditches that allow run off into the containment reservoir. Storage tanks must be surrounded by embankments and have drains in case of leakage.

Appropriate storage conditions : Store the material in covered, dry, well ventilated and identified areas. Keep out of direct sunlight. Store in a closed container.

Inappropriate storage conditions : Exposed to elevated temperatures, sun and rain. Close to oxidizing agents. Close to food. Close to sources of heat and ignition.

Materials to avoid : Do not store with explosive materials, flammable and/or toxic gases, oxidizing, corrosive substances, or materials that may generate spontaneous combustion.

Secure packaging materials

Recommended packaging materials : Metal packaging

Packaging materials to be avoided : Certain plastic materials

8. EXPOSURE CONTROL – PERSONAL PROTECTION

The information in this chapter contain general guidelines. Chapter 1 should be consulted for any information on the recommended use of this product in different scenarios of exposure.

Engineering control measures : Preferably use the product in adequate application cabin. In case it is not possible, provide exhaustion/ventilation enough to keep the concentration of the agents indicated in this section under the limits of tolerance (L.T.), otherwise, use adequate respiratory protection equipment. The engineering controls should keep the concentrations

PAUMAR S.A. INDÚSTRIA E COMÉRCIO – GRUPO WEG



of gas/vapour under the limit of LEL - Lower Explosive Limit (see section 9). Use equipment explosion proof.

Control parameters**Occupational Exposure Limits**

| Name | CAS No. | TLV/TWA | TLV/STEL | TLV/TETO | Source |
|--|------------|---------|----------|----------|--------|
| FATTY ACIDS, UNSATURATED C18, DIMER, PRODUCTS OF REACTIONS WITH POLIETILENOPOLIAMI NAS | 68082-29-1 | | | | |
| TRIETHYLENETETRAMINE | 112-24-3 | | | | |

*PPM - parts of vapour or gas per million of parts of contaminated air

**MG/m³ - miligrams per cubic meter of air.

Personal protective equipment required

Respiratory protection : In case of the concentrations are above the indicated tolerance limits, the use of appropriated mask is necessary for this goal (half-face mask or full face mask with filter to organic vapors and acid gases).

Hand protection : Use nitrilic gloves associated with the use of the adequate protection cream

Eye protection : Use hermetic goggles to protect against liquid splashes.

Body and skin protection : It is recommended the use of apron barber type to protecting upper limbs, trunk and lower limbs in case of splash. In case of risk of static electricity generation the cloth should be antistatic, includin the apron.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form : Liquid

State of matter : Liquid

Color : Amber

Odour : Distinctive

pH : Data not available.

Melting point : Data not available.

PAUMAR S.A. INDÚSTRIA E COMÉRCIO – GRUPO WEG

Rua Dr. Ulisses Guimarães, 918 – 09372-050 – Mauá – SP – Fone: + 55 (11) 4541-6100
 Rodovia Br 280 – Km 50, 6.918 – Bloco A – 89270-000 – Guarimir – SC – Fone: + 55 (47) 3276-4000
 Rua Via VII, 314 – 54590-000 – Cabo de Santo Agostinho – PE – Fone: + 55 (81) 3512-3000
 EMERGÊNCIA: +55 0800 720 8000 – E-mail: tintas@weg.net - www.weg.net



| | | |
|--|---|-------------------------------|
| Boiling point | : | Data not available. |
| Flash Point (Open cup) | : | > 185 °C |
| Evaporation rate | : | Data not available. |
| Inflammation point | : | Method: Data not available. |
| Upper explosive limit | : | Data not available. |
| Lower explosive limit | : | Data not available. |
| Vapor pressure | : | Data not available. |
| Density | : | 0,94 - 0,98 g/cm ³ |
| Solubility(ies) | : | Water-insoluble |
| N-octano /water partition coefficient | : | Data not available. |
| Auto flammability | : | Data not available. |
| Vapor density | : | Data not available. |
| | | Data not available. |

10. STABILITY AND REACTIVITY

| | | |
|---|---|--|
| Reactivity | : | Presents no reactivity at room temperature and under normal conditions of use. |
| Chemical stability | : | Stable at room temperature and under normal conditions of use. Unstable at temperatures above the flash point. |
| Possibility of dangerous reactions | : | Presents no reactivity at room temperature and under normal conditions of use. None when the product is stored, applied and processed correctly. |
| Need to add additives and inhibitors | : | Not necessary. |
| Conditions to avoid | : | Extreme heat and open flame. |
| Incompatible materials | : | Do not store with explosive materials, flammable and/or toxic gases, oxidizing, corrosive substances, or materials that may generate spontaneous combustion. Plastic materials soluble in Xylene. |
| Dangerous products of decomposition | : | Produces noxious gases such as carbon monoxide (CO), carbon dioxide (CO ₂) and nitrogen oxides (NO _x). |

PAUMAR S.A. INDÚSTRIA E COMÉRCIO – GRUPO WEG

Rua Dr. Ulisses Guimarães, 918 – 09372-050 – Mauá – SP – Fone: + 55 (11) 4541-6100
 Rodovia Br 280 – Km 50, 6.918 – Bloco A – 89270-000 – Guarimirim – SC – Fone: + 55 (47) 3276-4000
 Rua Via VII, 314 – 54590-000 – Cabo de Santo Agostinho – PE – Fone: + 55 (81) 3512-3000
 EMERGÊNCIA: +55 0800 720 8000 – E-mail: tintas@weg.net - www.weg.net



11. TOXICOLOGICAL INFORMATION

Components**FATTY ACIDS, UNSATURATED C18, DIMER, PRODUCTS OF REACTIONS WITH POLIETILENOPOLIAMINAS**

| | | |
|--|---|-----------------------|
| Acute toxicity by oral use | : Test species DL50 Observations | Rat 2.000 mg/kg |
| Acute toxicity by inhalation | : Test species DL50 Observations | Data not available. |
| Acute toxicity by cutaneous use | : Test species DL50 Observations | Rabbit 2.000 mg/kg |
| Acute toxicity (other methods of administration) | : Test species DL50 LC50 Non-standard unit value | Data not available. |
| Corrosion/irritation of skin | : Category 2 | |
| Serious eye damage/eye irritation | : Data not available. | |
| Respiratory or dermal sensitivity | : Category 1 | |
| Mutageneses | : Data not available. | |
| Carcinogenicity | : Data not available. | |
| Toxic effects for reproduction | : Data not available. | |
| Specific target organ toxicity (STOT) - single exposure | : Data not available. | |
| Specific target organ toxicity (STOT) - repeat exposure | : Data not available. | |

TRIETHYLENETETRAMINE

| | | |
|-------------------------------------|--|---------------------|
| Acute toxicity by oral use | : Test species DL50 Observations | Rat 2.500 mg/kg |
| Acute toxicity by inhalation | : Test species DL50 Observations | Data not available. |

PAUMAR S.A. INDÚSTRIA E COMÉRCIO – GRUPO WEG



| | | |
|--|---|---------------------|
| Acute toxicity by cutaneous use | : Test species DL50 Observations | Rabbit 805 mg/kg |
| Acute toxicity (other methods of administration) | : Test species DL50 LC50 Non-standard unit value | Data not available. |
| Corrosion/irritation of skin | : Category 1B | |
| Serious eye damage/eye irritation | : Data not available. | |
| Respiratory or dermal sensitivity | : Category 1 | |
| Mutageneses | : Data not available. | |
| Carcinogenicity | : Data not available. | |
| Toxic effects for reproduction | : Data not available. | |
| Specific target organ toxicity (STOT) - single exposure | : Data not available. | |
| Specific target organ toxicity (STOT) - repeat exposure | : Data not available. | |

Not classified in terms of toxicity based on the data available.

12. ECOLOGICAL INFORMATION

| | |
|---|---|
| Stability in soil | : The product easily infiltrates into the soil |
| Other toxicological observations | : Data not available. |
| Ecotoxicity | : Contaminates the ground water. Detrimental to the fauna Detrimental to the flora. |

13. DIOSPOSAL AND TREATMENT CONSIDERATIONS

Recommended methods for final disposal

PAUMAR S.A. INDÚSTRIA E COMÉRCIO – GRUPO WEG

Rua Dr. Ulisses Guimarães, 918 – 09372-050 – Mauá – SP – Fone: + 55 (11) 4541-6100
Rodovia Br 280 – Km 50, 6.918 – Bloco A – 89270-000 – Guarimirim – SC – Fone: + 55 (47) 3276-4000
Rua Via VII, 314 – 54590-000 – Cabo de Santo Agostinho – PE – Fone: + 55 (81) 3512-3000
EMERGÊNCIA: +55 0800 720 8000 – E-mail: tintas@weg.net - www.weg.net

MATERIAL SAFETY DATA SHEET - MSDS

Product name LACKTHERM 1364 H Code 10001690



Last revision: 06.09.2017

Page: 11 of 13

- Product** : Class I Waste - Dispose of in industrial landfill or a facility authorized for recycling in accordance with federal, state or local regulations
- Waste** : Class I Waste - Dispose of in industrial landfill or a facility authorized for recycling in accordance with federal, state or local regulations
- Used packaging** : Clean packaging should be sent for recycling. Packaging with class I waste should be disposed of in industrial landfill or a facility authorized for recycling in accordance with federal, state or local regulations.

14. TRANSPORTATION INFORMATION

National and international regulations

- Land : Not classified as a dangerous good under transport regulations.
- Shipping : Not classified as a dangerous good under transport regulations.
- Air transport : Not classified as a dangerous good under transport regulations.

15. REGULATORY INFORMATION

This MSDS (Material Safety Data Sheet) was generated according to the criteria of NBR 14725/2014. (Brazilian standard that defines the GHS).

| | |
|---|--|
| <p>Specific Regulations for the Chemical Product.</p> | <p>Federal Decree No. 2657, July 3rd , 1998.</p> <p>Law No. 12305, August 2nd 2010 (Solid Waste National Policy).</p> <p>Decree No. 7404, December 23rd , 2010.</p> <p>Ordinance No. 229, May 24th, 2011 - Changes to Regulatory Standard No. 26.</p> <p>ABNT NBR 14725: 2014.</p> |
|---|--|



16. ADDITIONAL INFORMATION

Acronyms Used:

Legenda:

| | |
|-----------------|---|
| CAS | Chemical Abstract Service |
| VO | Organic Vapors |
| NEC | National Electrical code/Código Nacional de Eletricidade |
| IEC: | International Electrical Commission |
| ABNT | Brazilian Association of Technical Standards |
| ACGIH | American Conference of Governmental Industrial Hygienists |
| TLV | Threshold Limit Values |
| TLV/TWA | Time Weighted Average |
| TLV/STEL | Short Term Exposure Limit |
| TLC/C: | Tolerance Limit - Ceiling Value |
| EPI: | Individual Protective Equipment |
| CA | Approval Certificate |
| PPRA | Environmental Risk Prevention Program |
| NR | Regulatory Standard |
| NFPA | National Fire Protection Agency |
| mmHg | Millimeters of mercury - pressure unit |
| DL50 | Lethal Dose average |
| CL50 | Lethal Concentration average |
| ppm | Parts per million |
| N.d | Not available |
| A+B | Viscosity of the mixture of component A + component B |

Important information, but not specifically described in the previous sections:

This MSDS was prepared based on current knowledge about the handling of the product under normal conditions of use, according to the application specified on the packaging and recommended usage in Section 1 of this MSDS. Any other use of the product involving its combination with other materials, as well as forms of use different from those indicated, are the user's responsibility. The company advises that the handling of any chemical substance requires prior knowledge of its hazards by the user. In the workplace it is responsibility of the company user of the product to provide training of its employees and contractors about the possible risks arising from exposure to the chemical.

We reserve the right to change the information contained in this document without prior notice, due to the improvement and continuous evolution of the product and technical knowledge.

Vertical lines in the left hand margin indicate changes from the current version

PAUMAR S.A. INDÚSTRIA E COMÉRCIO – GRUPO WEG

Rua Dr. Ulisses Guimarães, 918 – 09372-050 – Mauá – SP – Fone: + 55 (11) 4541-6100
 Rodovia Br 280 – Km 50, 6.918 – Bloco A – 89270-000 – Guarimirim – SC – Fone: + 55 (47) 3276-4000
 Rua Via VII, 314 – 54590-000 – Cabo de Santo Agostinho – PE – Fone: + 55 (81) 3512-3000
 EMERGÊNCIA: +55 0800 720 8000 – E-mail: tintas@weg.net - www.weg.net

MATERIAL SAFETY DATA SHEET - MSDS

Product name LACKTHERM 1364 H

Code 10001690



Last revision: 06.09.2017

Page: **13** of **13**

PAUMAR S.A. INDÚSTRIA E COMÉRCIO – GRUPO WEG

Rua Dr. Ulisses Guimarães, 918 – 09372-050 – Mauá – SP – Fone: + 55 (11) 4541-6100
Rodovia Br 280 – Km 50, 6.918 – Bloco A – 89270-000 – Guarimirim – SC – Fone: + 55 (47) 3276-4000
Rua Via VII, 314 – 54590-000 – Cabo de Santo Agostinho – PE – Fone: + 55 (81) 3512-3000
EMERGÊNCIA: +55 0800 720 8000 – E-mail: tintas@weg.net - www.weg.net