

Material Safety Data Sheet
Trade name: Thewalt T 14
Date of revision: 03.07.2006

1. Name of substance / preparation and company

Trade name	Thewalt T 14	
Name of substance / preparation	Naphtha (crude petroleum), hydrogen-treated heavy with Ionol CP and Hitec 536 as additives	
Chemical characterization	Aliphatic and cycloaliphatic hydrocarbon mixture, a complex substance obtained from crude petroleum, with Ionol CP and Hitec 536 as additives	
Use of substance / preparation	Hydrocarbon for industrial purposes.	
Company name	Firma Bernd Thewalt Inhaber Joern Thewalt Weinbergweg 22 D - 66119 Saarbrücken	
Emergency number	during regular business hours outside of regular business hours or contact your local emergency number for intoxications	Phone: +49 (0) 6 81 - 9 68 10- 0 Fa. Thewalt Saarbrücken Phone: +49 (0) 6 81 - 9 68 10- 0 Fax: +49 (0) 6 81 - 9 68 10-20

2. Composition / Information on Ingredients

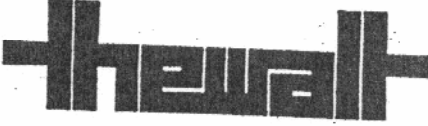
Name	Naphtha (petroleum), hydrotreated heavy	
CAS number	64742-48-9	
EINECS number (EC No)	265-150-3	
Classification of product	<u>Symbols</u> - 10 Xn 65 - 66	<u>R-phrases</u> REF 4: Kinematic viscosity at 40°C < 7 mm²/s. REF H: Self-classification for non-listed properties. REF P: Benzene concentration < 0.1 % of weight.

Other hazardous components

EINECS No	CAS No.	Name	Content	Symbols	R-phrases
204-881-4	128-37-0	2,6 Di-tert-butyl-p-cresol (Ionol CP)	0,1 %	-	-
-	-	Hitec 536	0,1 %	Xi	43

3. Potential hazards

Classification	Flammable. Harmful: may cause lung damage if swallowed. Repeated exposure may cause skin dryness or cracking.
Additional warnings of hazards to human health and the environment	Danger of electrostatic charging. Explosive vapour/air mixtures may be generated.



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4. First aid measures

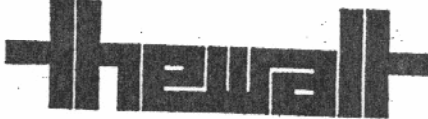
General instructions	Remove victim from danger zone, without exposing yourself to any personal risk. Remove wetted clothing and shoes and clean items before using them again.
After inhaling	Move victim outside into fresh air. If breathing is irregular or has stopped, perform artificial respiration. Immobilise victim and assure immediate attendance by a physician.
After skin contact	Wash off thoroughly with soap and water - apply cream -.
After eye contact	Rinse off with water for long period of time - see a doctor.
After swallowing	Do not give victim any food or drink. Do NOT induce vomiting. Immobilise victim and call a doctor.
Symptoms and effects	Product may cause headache, dizziness, nausea, loss of consciousness and dry skin. Disorders of the central nervous system are possible as well. Also see item 11.
Instructions for attending physician	Prolonged and/or repeated exposure may cause skin discomfort and inflammation (dermatitis). In case of swallowing followed by vomiting, material may be aspirated into the lungs - possibly leading to pulmonary edema (wet lung).

5. Fire fighting measures

Suitable extinguishing agents	Foam, dry extinguishing agents, carbon dioxide, fine dispersion of water spray (mist)
Fire-extinguishing agents that are unsuitable for safety reasons	Water, full spray
Special hazards arising from the substance or the preparation itself, its products of combustion or gases generated	Incomplete combustion generates carbon monoxide. Vapours are heavier than air and will spread across the ground, with igniting possible over long distances. "Floats" up and may re-ignite.
Special protective equipment for fire-fighting	Full-protection suit, respirator with self-contained air supply
Risk-prone containers	Cool with water spray.

6. Measures to be taken in case of inadvertent release / spillage

Personel-related precautions	Avoid skin and eye contact. Do not inhale vapours / aerosols. Eliminate all potential sources of ignition. Remove all personnel not required on site from danger zone. Take precautions against electrostatic charging. Seal leaks, without exposing yourself to personal risk. Use personal protective clothing/equipment - also see item 8 -.
Environmental precautions / cleaning procedures	<p>Try to prevent product from entering into sewer lines, bodies of water and soil. Notify fire department or police if product has entered bodies of water or sewer lines, or has contaminated soil and plants. Contain liquid by an appropriate barrier, e.g. sand, and pump into a specially marked container. Absorb any residues using absorbing materials (e.g. sand, oil binding agents and similar means of absorption). Properly dispose of in compliance with environmental regulations.</p> <p>In case of inadvertent release (spillage) on waterways, keep barge, boat traffic, etc. at appropriate distance. Notify harbour/ river police, coast guard, etc. and prevent general public from getting close to the scene. If possible, seal leaks, without exposing yourself to personal risk. Contain liquid, if possible. Remove product from water surface by skimming or using suitable means of absorption. In case of spillage in rivers, etc., coordinate with competent authorities to allow product to sink to the bottom and/or use suitable deflocculation agents.</p>



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7. Handling and storage

Handling	
Handling safety instructions	Avoid skin and eye contact and wear personal protective gear. Avoid inhalation of vapours / aerosols. Inside closed rooms or when filling or emptying containers, assure sufficient ventilation during operations (use local exhaust/suction system, if needed/available). In laboratories, product should only be handled underneath exhaust fan system (GLP). Use suitable precautions to prevent product from entering sewer lines, bodies of water and soil.
Fire and explosion protection instructions	Keep away from sources of ignition and heat - do not smoke -. Take precautions against electrostatic charging and explosion (see relevant chemical industry/trade association publications, e.g. BG-Chemie). Any fire protection measures required must be coordinated with competent authorities.
Miscellaneous information	Empty containers may still contain product residues and thus harbour respective risks - continue to take appropriate precautions.
Storage	
Requirements to be met by storage facilities and containers	Keep container sealed tightly. Store at room temperature. May react with air to generate explosive mixture. Keep away from food and beverages. Type and quality of tanks and storage facilities must be coordinated with competent authorities.
Combined storage instructions	Do not store together with strong oxidation agents.
Suitable materials	C-steel, high-grade (stainless) steel, polyethylene, polypropylene, polyester, teflon
Unsuitable materials	Natural rubber, butyl rubber, EPDM, polystyrene
Temperature class (Germany)	T 3

8. Exposure limits and personal protection gear / equipment

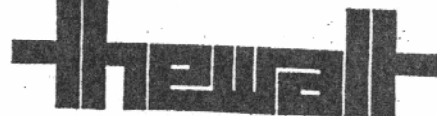
Critical exposure values (German law; might need to comply with national law.)

Name/designation	Type	Peak value	Critical value
De-aromatized hydrocarbon mixtures (Group 1)	TRGS 900	4	200 ml/m³

The exposure limit specified above is no longer included in TRGS 900. Specification of this limit in this safety data sheet is for orientation purposes only.
There are no exposure limits for 2,6 di-tert-butyl-p-cresol and Hitec 536.

Limiting and monitoring exposure in the workplace and environmental exposure	Depending on the application conditions, local aspiration facilities or mechanical dilution ventilation facilities are recommended to keep the product concentration below the recommended exposure limits. Local aspiration facilities can also be used for monitoring the process emissions right at the source. This must occur in compliance with government regulations for outgoing air. Further information can be obtained from BG-Chemie (Germany).
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Personal protective gear / equipment	
Respiratory protection	In case of risk that the stated boundary values may be exceeded, the following respiratory protection is recommended: filter in gas mask for org. gases and vapours (type A).
Hand protection	Protective gloves made of nitrile oder Viton, e.g. Camatril Velours 730 (nitrile) or Vitojekt 890 (Viton) made by KCL. (permeation time > 480 min)
Eye protection	Tightly sealing goggles with side protection.
Body protection	Hydrocarbon solvent-resistant protection suit and safety shoes
General protection and hygienic measures	The choice of personal protective clothing depends on the hazard posed by the product, on the workplace, and on the type of handling. The suitability of protective equipment for the individual application purpose must be discussed with the manufacturer of the personal protective equipment and the government authorities. Each and every person entering the area, in which the product is handled, must wear at least protective goggles with lateral protection. Avoid exposure of the skin and eyes. Do not inhale vapours / aerosols. Do not eat, drink or smoke while working with this product. Change any wetted clothing.



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9. Physical and chemical properties

General Information

Physical / aggregate state	liquid
Colour	colourless, clear
Odour	typically, mild

Critical information on health / environmental protection and safety

pH value	not applicable	
Melting point	< - 20 °C	
Boiling point	155 / 180 °C	DIN EN ISO 3405
Flash point	40 °C	DIN EN ISO 13736
Explosion limits	0,6 - 7,0 vol. %	
Ignition temperature	> 200 °C	DIN 51794
Vapour pressure at 20°C	2 hPa	
Vapour pressure at 50°C	15 hPa	
Density at 15°C	766,0 kg/m³	DIN 51757
Solubility in water at 20°C	insoluble	
Solubility in solvents at 20°C	miscible	
Distribution coefficient n-octanole / water	4,9 - 6,5 (estimated)	log POW
Kinematic viscosity at 20°C	1,3 mm²/s	DIN 51562
Kinematic viscosity at 40°C		DIN 51562
Evaporation rate (ether = 1)	60	DIN 53170

Miscellaneous information

Hygroscopic	no	
Molecular weight	app. 142 g/mol	(calculated)

10. Stability and reactivity

Stability	Stable under normal conditions.
Conditions to be avoided	Flames, sparks, heat
Substances to be avoided	Strong oxidizing agents
Hazardous products of instability / decomposition	None known

11. Toxicological information

Basis of evaluation	Evaluation has been derived from data material on hydrocarbons of single components and / or similar products. Data apply to the pure solvent only, not to the additive(s).
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Acute toxicity data

LD ₅₀ , oral, rat	> 15.000 mg/kg
LC ₅₀ , inhalative, rat	> 6,1 mg/l (4 hours)
LD ₅₀ , dermal, rabbit	> 3.000 mg/kg
Skin irritation, EU value, rabbit	low [minimal], no rating
Skin sensitization, human and / or guinea pig	no sensitization
Eye irritation, acc. to Draize, rabbit	low [minimal], no rating

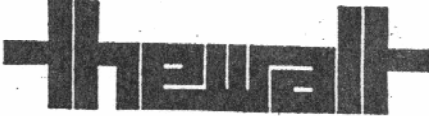
After swallowing	Swallowing, particularly if followed by vomiting, may lead to pulmonary damage - pneumonia - pulmonary edema (wet lung).
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After inhaling	Inhalation of vapours exceeding the workplace-related limit (subject to monitoring) should be avoided. High concentrations of vapour / aerosol have a numbing effect, possibly resulting in disorders of the central nervous system.
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After skin contact	Frequent or prolonged dermal contact may cause skin to lose oil, resulting in skin inflammation (dermatitis).
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After eye contact	Causes eye discomfort. Under normal conditions, eye tissue will not be damaged.
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Mutagenicity	No mutagenicity
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12. Environmental information

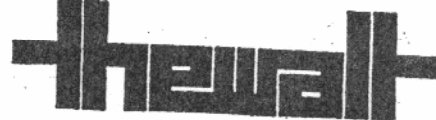
Basis of evaluation	Evaluation has been derived from data material on hydrocarbons of single components and / or similar products. Data apply to the pure solvent only, not to the additive(s).
Acute eco-toxicity, crustaceans (Gammarus locusta)	LL50: > 100 mg/l (96 hours)
Mobility	Product floats on the surface of water and water solubility is minimal. It is adsorbed by the soil and not mobile.
Persistence / degradability	Product is easily bio-degradable (Manometric Respirometry).
Bioaccumulation	Potential for bioaccumulation exists.
Miscellaneous information	No long-term damaging effects for aquatic organisms are expected. Product does not contain any absorbable organic halogen compounds (AOX).
Water hazard class (Germany)	1 (List classification according to VwVwS)

13. Disposal instructions

Product	Disposal instructions refer to the pure, unmodified product. If possible, recondition product, otherwise incinerate in officially approved incinerating plant. Allocation of the EAK-Code (European Waste Catalogue) is the responsibility of the user.
Packaging w/o prior cleaning	WARNING! Even empty containers (with all residues removed) remain contaminated and must either be properly disposed of by trained personnel or subjected to an approved reconditioning process.

14. Transportation information

Surface / land transportation ADR / RID	
Class	3
Packing group	III
UN No.	3295
Classification code	F 1
Hazard ID No.	30
Hazardous lable	3
Name / designation used in shipping documents	UN 3295, HYDROCARBONS, LIQUID, N.O.S., 3, III
Sea vessel transport IMDG Code / GGVSee	
Class	3
Packing group	III
UN No.	3295
Marine Pollutant	no
EMS No.	F-E, S-D
Hazard ID	3
Additional ID	
Proper shipping name	HYDROCARBONS, LIQUID, N.O.S., 3, UN 3295, III, (40 DegC c.c.)
Air transport ICAO-TI and IATA-DGR	
Class	3
Packing group	III
UN No.	3295
Proper shipping name	HYDROCARBONS, LIQUID, N.O.S.



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15. Regulations

Marking acc. to current EC Directive and / or Ordinance on Hazardous Substances (Germany):

Hazard symbol / s	Xn	Harmful
Name / designation used on label	Naphtha (crude petroleum), hydrogen-treated heavy with Ionol CP and Hitec 536 as additives	
R - phrases	10	Flammable.
	65	Harmful: may cause lung damage if swallowed.
	66	Repeated exposure may cause skin dryness or cracking.
S - phrases	23	Do not breathe gas/fumes/vapour/spray.
	24	Avoid contact with skin.
	43	In case of fire, use foam, dry extinguishing agent, CO2 or possibly water aerosol to extinguish.
	62	If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

National regulations

VOC Directive (Switzerland)	Product is subject to VOC control tax
31. BimSchV (Germany)	Product is considered a "volatile organic compound"
WGK (Germany)	1 (List classification according to VwVwS)
HS - Code	2710 11 21

16. Miscellaneous information

Warnings pertaining to hazardous ingredients / components addressed in item 2:

2,6 Di-tert-butyl-p-cresol (Ionol CP)

Hitec 536
 May cause sensitization by skin contact. (43)

This information provided in this Safety Data Sheet is based on our knowledge, know-how and experience at the time of publication. The information refers strictly to the product per se. If the product is mixed with other materials or subjected to any kind of treatment or processing the information as stated herein may no longer be valid.

THEWALT does not guarantee the information stated herein to be free from errors and/or complete, nor does this information constitute or imply any promises or assurances.