

TIP TOP HARDENER ER-42

Safety Data Sheet

according to the Model Work Health and Safety Regulations

Issue date:27/08/2015 Revision date:11/05/2021 Supersedes:22/01/2020 Version: 1.6

SDS No: 00156-0414



SECTION 1: Product identifier

1.1. Product identifier

Product form : Mixture
Product name : TIP TOP HARDENER ER-42
Product code : 525 1116, 5251118, 5251151, 525 1156

1.2. Other means of identification

No additional information available

1.3. Recommended use of the chemical and restrictions on use

Recommended use : Hardener

1.4. Supplier's details

Supplier

REMA TIP TOP AG
65 Gruber Strasse
85586 Poing - Germany
T +49 (0) 8121 / 707 - 100

Importer

REMA TIP TOP Australia Pty Ltd.
3 - 7 Ironbark Close
Warabrook NSW 2304 - Australia
T +61-2-4935-0200
www.rema-tiptop.com.au

E-mail address of competent person responsible for the SDS: sds@gbk-ingelheim.de

1.5. Emergency phone number

Emergency number : +61-280735031, Infotrac/GBK GmbH-ID: 93591

SECTION 2: Hazards identification

2.1. Classification of the hazardous chemical

Classification according to the model Work Health and Safety Regulations (WHS Regulations)

Flammable liquids, Category 2	H225
Skin corrosion/irritation, Category 2	H315
Serious eye damage/eye irritation, Category 2A	H319
Respiratory sensitisation, Category 1	H334
Skin sensitisation, Category 1	H317
Carcinogenicity, Category 2	H351
Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation	H335
Specific target organ toxicity — Single exposure, Category 3, Narcosis	H336
Specific target organ toxicity — Repeated exposure, Category 2	H373

2.2. Label elements

Hazard pictograms (GHS AU) :



Signal word (GHS AU) :

Danger

Contains :

Ethyl acetate (< 85 %); Diphenylmethanediisocyanate, isomers and homologues (< 30 %); Aromatic polyisocyanate (< 10 %); 4-isocyanatosulphonyltoluene (< 0,5 %)

Hazard statements (GHS AU) :

H225 - Highly flammable liquid and vapour
H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.
H319 - Causes serious eye irritation.
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.

TIP TOP HARDENER ER-42

Safety Data Sheet

according to the Model Work Health and Safety Regulations

SDS No: 00156-0414



Precautionary statements (GHS AU)

H335 - May cause respiratory irritation.
H336 - May cause drowsiness or dizziness
H351 - Suspected of causing cancer.
H373 - May cause damage to organs through prolonged or repeated exposure.
: P201 - Obtain special instructions before use.
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P240 - Ground/bond container and receiving equipment
P241 - Use explosion-proof electrical/ventilating/lighting equipment.
P242 - Use only non-sparking tools
P243 - Take precautionary measures against static discharge
P260 - Do not breathe dust/fume/gas/mist/vapours/spray.
P264 - Wash hands thoroughly after handling.
P271 - Use only outdoors or in a well-ventilated area.
P272 - Contaminated work clothing should not be allowed out of the workplace.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313 - IF exposed or concerned: Get medical advice/attention.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P342+P311 - If experiencing respiratory symptoms: Call a POISON CENTER/doctor/...
P284 - [In case of inadequate ventilation] wear respiratory protection.
P363 - Wash contaminated clothing before reuse
P362 - Take off contaminated clothing.
P403+P235 - Store in a well-ventilated place. Keep cool.
P405 - Store locked up.
P501 - Dispose of contents/container to an approved waste disposal plant.

2.3. Other hazards

Other hazards not contributing to the classification : Vapours may form explosive mixture with air.

SECTION 3: Composition/information on ingredients

Comments : Aromatic polyisocyanate.

Name	CAS-No.	%	Classification according to the model Work Health and Safety Regulations (WHS Regulations)
Ethyl acetate	141-78-6	< 85	Flam. Liq. 2, H225 Eye Irrit. 2A, H319 STOT SE 3, H336
Diphenylmethanediisocyanate, isomers and homologues	9016-87-9	< 30	Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 Carc. 2, H351 STOT SE 3, H335 STOT RE 2, H373
Aromatic polyisocyanate	53317-61-6	< 10	Eye Irrit. 2A, H319 Skin Sens. 1, H317
4-isocyanatosulphonyltoluene	4083-64-1	< 0,5	Eye Irrit. 2A, H319 STOT SE 3, H335 Skin Irrit. 2, H315 Resp. Sens. 1, H334

TIP TOP HARDENER ER-42

Safety Data Sheet

according to the Model Work Health and Safety Regulations

SDS No: 00156-0414



SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: Take off immediately all contaminated clothing. Move the affected person away from the contaminated area. If unconscious place in recovery position and seek medical advice. If you feel unwell, seek medical advice.
First-aid measures after inhalation	: Move to fresh air in case of accidental inhalation of vapours or decomposition products. Call a physician immediately. Apply artificial respiration if breathing stopped.
First-aid measures after skin contact	: Wash off immediately with soap and plenty of water. Do not use solvents or thinners. Get medical advice if skin irritation persists.
First-aid measures after eye contact	: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Consult an eye specialist. Contact lenses should be removed.
First-aid measures after ingestion	: Do not induce vomiting. Rinse mouth out with water. Drink plenty of water. Never give anything by mouth to an unconscious person. Call a physician immediately. Do not induce vomiting without medical advice.

4.2. Symptoms caused by exposure

Symptoms/effects after inhalation	: Harmful if inhaled. May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause drowsiness or dizziness.
Symptoms/effects after skin contact	: May cause an allergic skin reaction. Causes skin irritation.
Symptoms/effects after eye contact	: Causes serious eye irritation.
Chronic symptoms	: Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure.

4.3. Indication of any immediate medical attention and special treatment needed

Treatment	: Treat symptomatically.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Alcohol resistant foam. Water spray. Dry powder. Carbon dioxide.
Unsuitable extinguishing media	: high volume water jet.

5.2. Special hazards arising from the substance or mixture

General measures	: In case of vapour formation use adequate respirator. Ensure adequate air ventilation. Use explosion-proof equipment. Use personal protective clothing.
Hazardous decomposition products in case of fire	: Fire may produce: Carbon monoxide. Carbon dioxide. Nitrogen oxides. Hydrogen cyanide. Isocyanates.

5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
Hazchem Code	: * 3YE
Other information	: Cool containers / tanks with spray water if possible. Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations. Vapours are heavier than air and may spread along floors. The vapour/air mixture is explosive, even in empty, uncleaned receptacles.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: In case of vapour formation use adequate respirator. Ensure adequate air ventilation. Use explosion-proof equipment. Use personal protective clothing.
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6.1.1. For non-emergency personnel

Emergency procedures	: Ventilate spillage area. No open flames, no sparks, and no smoking. Do not breathe vapours. Avoid contact with skin and eyes.
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TIP TOP HARDENER ER-42

Safety Data Sheet

according to the Model Work Health and Safety Regulations

SDS No: 00156-0414



6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Do not discharge into the drains/surface waters/groundwater. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material (for example sand, sawdust, a universal binder, silica gel). Shovel or sweep up and put in a closed container for disposal. Do not keep the container sealed. Container can be pressurised by carbon dioxide due to reaction with humid air and/or water.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Keep containers dry and tightly closed to avoid moisture absorption and contamination. Ensure good ventilation of the work station. Vapours are heavier than air. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Wear personal protective equipment. Do not handle until all safety precautions have been read and understood. Do not breathe Vapours. Avoid contact with skin and eyes.

Hygiene measures : Do not inhale vapour. Always wash hands after handling the product. Treat subsequently with skin cream. Do not eat, drink or smoke when using this product. Avoid contact with skin, eyes and clothing. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Pay attention to explosion protection guidelines. Ground/bond container and receiving equipment.

Storage conditions : Keep away from sources of ignition. Store in a well-ventilated place. Keep cool. Keep container tightly closed. Keep away from heat and direct sunlight.

Incompatible materials : oxidizing materials. Acids. Strong bases. Water. Amines. alcohols.

Information on mixed storage : Keep away from food, drink and animal feeding stuffs.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters - exposure standards

Ethyl acetate (141-78-6)	
Australia - Occupational Exposure Limits	
Local name	Ethyl acetate (Acetic acid ethyl ester; Acetic ester)
OES TWA [1]	720 mg/m ³
OES TWA [2]	200 ppm
OES STEL	1440 mg/m ³
OES STEL [ppm]	400 ppm
Regulatory reference	Workplace exposure standards for airborne contaminants (2019)
Diphenylmethanediisocyanate, isomers and homologues (9016-87-9)	
Australia - Occupational Exposure Limits	
Local name	Isocyanates, all
OES TWA [1]	0.02 mg/m ³ as-NCO
OES STEL	0.07 mg/m ³ as-NCO

TIP TOP HARDENER ER-42

Safety Data Sheet

according to the Model Work Health and Safety Regulations

SDS No: 00156-0414



Diphenylmethanediisocyanate, isomers and homologues (9016-87-9)

Remark (AU)	Sen - Respiratory and/or Skin Sensitiser.
Regulatory reference	Workplace exposure standards for airborne contaminants (2019)

4-isocyanatosulphonyltoluene (4083-64-1)

Australia - Occupational Exposure Limits

Local name	Isocyanates, all
OES TWA [1]	0.02 mg/m ³ as-NCO
OES STEL	0.07 mg/m ³ as-NCO
Remark (AU)	Sen - Respiratory and/or Skin Sensitiser.
Regulatory reference	Workplace exposure standards for airborne contaminants (2019)

Aromatic polyisocyanate (53317-61-6)

Australia - Occupational Exposure Limits

Local name	Isocyanates, all
OES TWA [1]	0.02 mg/m ³ as-NCO
OES STEL	0.07 mg/m ³ as-NCO
Remark (AU)	Sen - Respiratory and/or Skin Sensitiser.
Regulatory reference	Workplace exposure standards for airborne contaminants (2019)

8.2. Monitoring

No additional information available

8.3. Appropriate engineering controls

Appropriate engineering controls : Pay attention to explosion protection guidelines. Ensure good ventilation of the work station.

8.4. Personal protective equipment

Hand protection : Splash protection. This recommendation refers exclusively to the chemical compatibility and the lab test conforming to EN 374 carried out under lab conditions. Requirements can vary as a function of the use. Therefore it is necessary to adhere additionally to the recommendations given by the manufacturer of protective gloves

Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Chemically resistant protective gloves	Nitrile rubber	1 (> 10 minutes)	≥0.4		EN ISO 374
Chemically resistant protective gloves	Butyl rubber	3 (> 60 minutes)	≥0.7		EN ISO 374

Eye protection : Protective goggles in the event of risk of splashes. Tightly fitting goggles (EN 166). Eyewash bottle with clean water (EN 15154)

Skin and body protection : Long sleeved protective clothing (DIN EN ISO 6530)

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment

Device	Filter type	Condition	Standard
Respiratory protective device with a gas filter	Type A		EN 14387

Environmental exposure controls : Avoid release to the environment.

Other information : Do not inhale vapour. Wash hands immediately after handling the product. Wash hands before breaks and at the end of workday. Do not eat, drink or smoke when using this product. Treat subsequently with skin cream.

TIP TOP HARDENER ER-42

Safety Data Sheet

according to the Model Work Health and Safety Regulations

SDS No: 00156-0414



SECTION 9: Physical and chemical properties

Physical state	: Liquid
Appearance	: No data available
Colour	: yellowish
Odour	: characteristic
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point / Freezing point	: No data available
Boiling point	: ≈ 77 °C
Flash point	: -4 °C Not sustaining combustion
Auto-ignition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: Vapour pressure: 97 hPa @20°C
Relative density	: No data available
Density	: Density: 0.97 g/cm ³ @20°C
Solubility	: immiscible. at 20 °C. Water: Not miscible
Log Pow	: No data available
Explosive properties	: Product is not explosive. May form flammable/explosive vapour-air mixture.
Oxidising properties	: Non oxidizing
Explosive limits	: No data available
Minimum ignition energy	: No data available
VOC content	: < 73.45 %
Fat solubility	: No data available
Additional information	: Solid content 26%

SECTION 10: Stability and reactivity

Reactivity	: No decomposition if stored and applied as directed.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: Reacts with: acids and bases. Water. Amines. alcohols. alkalis. oxidizing materials.
Conditions to avoid	: Heating can release vapours which can be ignited. Vapour/air-mixtures are explosive at intense warming. To avoid thermal decomposition, do not overheat.
Incompatible materials	: Amines. Water. alcohols. Strong oxidizing agent. Strong acids. Strong bases.
Hazardous decomposition products	: Nitrogen oxides. Carbon monoxide. Carbon dioxide. Hydrogen cyanide. Isocyanates.

SECTION 11: Toxicological information

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

Ethyl acetate (141-78-6)

LD50 oral rat	4935 mg/kg
LC50 Inhalation - Rat	1600 mg/l/4h

Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Suspected of causing cancer.
Reproductive toxicity	: Not classified
STOT-single exposure	: May cause respiratory irritation. May cause drowsiness or dizziness.

Ethyl acetate (141-78-6)

STOT-single exposure	May cause drowsiness or dizziness.
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TIP TOP HARDENER ER-42

Safety Data Sheet

according to the Model Work Health and Safety Regulations

SDS No: 00156-0414



Diphenylmethanediisocyanate, isomers and homologues (9016-87-9)

STOT-single exposure : May cause respiratory irritation.

4-isocyanatosulphonyltoluene (4083-64-1)

STOT-single exposure : May cause respiratory irritation.

STOT-repeated exposure : May cause damage to organs through prolonged or repeated exposure.

Diphenylmethanediisocyanate, isomers and homologues (9016-87-9)

STOT-repeated exposure : May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard : Not classified

Potential adverse human health effects and symptoms : A longer or repeated contact may lead to irritation of eyes and mucous membranes. High concentration of vapours may induce: headache, nausea, dizziness. May cause kidney and liver disease, and disorders of the central nervous system

SECTION 12: Ecological information

According to the National Code of Practice for the Preparation of Material Safety Data Sheets, Environmental classification information is not mandatory. Information relevant for GHS classification is available on request

12.1. Ecotoxicity

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Not classified

Other information : Do not flush into surface water or sewer system. In aqueous systems, formation of insoluble and chemically inert (inactive) polyureas.

Ethyl acetate (141-78-6)

LC50 fish 1 : > 100 mg/l

12.2. Persistence and degradability

TIP TOP HARDENER ER-42

Persistence and degradability : No data available.

4-isocyanatosulphonyltoluene (4083-64-1)

Not rapidly degradable

12.3. Bioaccumulative potential

TIP TOP HARDENER ER-42

Bioaccumulative potential : No data available.

12.4. Mobility in soil

TIP TOP HARDENER ER-42

Ecology - soil : No data available.

12.5. Other adverse effects

Ozone : Not classified

Other adverse effects : Low hazard to waters.

TIP TOP HARDENER ER-42

Fluorinated greenhouse gases : False

TIP TOP HARDENER ER-42

Safety Data Sheet

according to the Model Work Health and Safety Regulations

SDS No: 00156-0414






Ethyl acetate (141-78-6)	
Fluorinated greenhouse gases	False
Diphenylmethanediisocyanate, isomers and homologues (9016-87-9)	
Fluorinated greenhouse gases	False
4-isocyanatosulphonyltoluene (4083-64-1)	
Fluorinated greenhouse gases	False
Aromatic polyisocyanate (53317-61-6)	
Fluorinated greenhouse gases	False

SECTION 13: Disposal considerations

Waste treatment methods	: Recycling is preferred to disposal or incineration. Can be incinerated according to local regulations. Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging disposal recommendations	: Packaging that cannot be cleaned should be disposed of like the product. Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse. Empty containers should be taken for local recycling, recovery or waste disposal.
Additional information	: Flammable vapours may accumulate in the container.

SECTION 14: Transport information

ADG	IMDG	IATA
14.1. UN number		
1133	1133	1133
14.2. UN proper shipping name		
ADHESIVES	ADHESIVES	Adhesives
14.3. Transport hazard class(es)		
3	3	3
		
14.4. Packing group		
II - substances presenting medium danger	II	II
14.5. Environmental hazards		
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No

14.6. Special precautions for user

Specific storage requirement	: No data available
Shock sensitivity	: No data available

14.7. Additional information

Other information : No supplementary information available

Transport by road and rail

UN-No. (ADG)	: 1133
Limited quantities (ADG)	: 5I
Packing instructions (ADG)	: P001, IBC02

TIP TOP HARDENER ER-42

Safety Data Sheet

according to the Model Work Health and Safety Regulations

SDS No: 00156-0414



Special packing provisions (ADG) : PP1
Portable tank and bulk container instructions (ADG) : T4
Portable tank and bulk container special provisions (ADG) : TP1, TP8

Transport by sea

UN-No. (IMDG) : 1133
Transport regulations (IMDG) : Transport in accordance with section 2.3.2.5 of the IMDG (viscous substance) may be applied
Limited quantities (IMDG) : 5 L
Excepted quantities (IMDG) : E2
Packing instructions (IMDG) : P001
Special packing provisions (IMDG) : PP1
IBC packing instructions (IMDG) : IBC02
Tank instructions (IMDG) : T4
Tank special provisions (IMDG) : TP1, TP8
EmS-No. (Fire) : F-E - FIRE SCHEDULE Echo - NON-WATER-REACTIVE FLAMMABLE LIQUIDS
EmS-No. (Spillage) : S-D - SPILLAGE SCHEDULE Delta - FLAMMABLE LIQUIDS
Stowage category (IMDG) : B

Air transport

UN-No. (IATA) : 1133
PCA Excepted quantities (IATA) : E2
PCA Limited quantities (IATA) : Y341
PCA limited quantity max net quantity (IATA) : 1L
PCA packing instructions (IATA) : 353
PCA max net quantity (IATA) : 5L
CAO packing instructions (IATA) : 364
CAO max net quantity (IATA) : 60L
Special provisions (IATA) : A3
ERG code (IATA) : 3L

14.8. Hazchem or Emergency Action Code

Hazchem Code : * 3YE

SECTION 15: Regulatory information

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

National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

Australian Inventory of Chemical Substances (AICS) status : All the chemicals contained in this product are listed on the AICS

Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP)

Relevant Poisons Schedule number : Schedule 6

15.2. International agreements

No additional information available

SECTION 16: Other information

Abbreviations and acronyms : ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road
ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
IATA - International Air Transport Association
IMDG - International Maritime Dangerous Goods
RID - Regulations concerning the International Carriage of Dangerous Goods by Rail
DOT - Department of Transport
TDG - Transportation of Dangerous Goods
REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006

TIP TOP HARDENER ER-42

Safety Data Sheet

according to the Model Work Health and Safety Regulations

SDS No: 00156-0414



GHS - Globally Harmonized System of Classification, Labelling and Packaging of Chemicals
IARC - International Agency for Research on Cancer
vPvB - Very Persistent and Very Bioaccumulative
PBT - Persistent Bioaccumulative Toxic
PNEC - Predicted No-Effect Concentration
CAS - CAS (Chemical Abstracts Service) number
IBC-Code - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
ATE - Acute Toxicity Estimate
CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
BCF - Bioconcentration factor
MARPOL 73/78 - MARPOL 73/78: International Convention for the Prevention of Pollution From Ships
ADG - Transport of Australian Dangerous Goods

Revision date

: 11/05/2021

Other information

: Data of sections 4 to 8, as well as 10 to 12, do partly not refer to the use and the regular employing of the product (in this sense consult information on use and on product), but to liberation of major amounts in case of accidents and irregularities. The information describes exclusively the safety requirements for the product(s) and is based on the present level of our knowledge. The delivery specifications are contained in the corresponding product sheet. This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.

Classification	
Flam. Liq. 2	H225
Skin Irrit. 2	H315
Eye Irrit. 2A	H319
Resp. Sens. 1	H334
Skin Sens. 1	H317
Carc. 2	H351
STOT SE 3	H335
STOT SE 3	H336
STOT RE 2	H373

Full text of H-statements	
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Carc. 2	Carcinogenicity, Category 2
Eye Irrit. 2A	Serious eye damage/eye irritation, Category 2A
Flam. Liq. 2	Flammable liquids, Category 2
Resp. Sens. 1	Respiratory sensitisation, Category 1
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
H225	Highly flammable liquid and vapour
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.

TIP TOP HARDENER ER-42

Safety Data Sheet

according to the Model Work Health and Safety Regulations

SDS No: 00156-0414



Full text of H-statements	
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.