

Safety Data Sheet

according to WHMIS

TIP TOP HARDENER UT-R20

Date (latest revision): 30.09.2025 Product code: 00156-0028 Page 1 of 9

1. Identification

Product identifier

TIP TOP HARDENER UT-R20

Art.-No.

525 1005, 525 1036, 525 1043, 525 1046, 525 1047, 525 1048

Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture

Hardener

Details of the supplier of the safety data sheet

Company name: REMA TIP TOP / North America Inc.

Street: 1500 Industrial Blvd
Place: Madison, GA 30650, USA

Telephone: +1 800 225 7362, Internet: www.rematiptop.com

Responsible Department: Responsible for the safety data sheet: sds@gbk-ingelheim.de

Emergency telephone number: (USA domestic) 1 800 535 5053 or international (001) 352 323 3500

Infotrac/GBK GmbH-ID: 93591

2. Hazard identification

Classification of the substance or mixture

WHMIS 2015

Carcinogenicity: Carc. 2

Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Irrit. 2 Respiratory or skin sensitization: Resp. Sens. 1 Respiratory or skin sensitization: Skin Sens. 1

Specific target organ toxicity - single exposure: STOT SE 3 (narcotic effects) (respiratory tract irritation)

Specific target organ toxicity - repeated exposure: STOT RE 2

Label elements

WHMIS 2015

Signal word: Danger

Pictograms:





Hazard statements

Causes skin irritation.

May cause an allergic skin reaction.

Causes serious eye irritation.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause respiratory irritation.

May cause drowsiness or dizziness.

Suspected of causing cancer.

May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Do not breathe vapour.



Safety Data Sheet

according to WHMIS

TIP TOP HARDENER UT-R20

Date (latest revision): 30.09.2025 Product code: 00156-0028 Page 2 of 9

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

IF exposed or concerned: Get medical advice/attention.

Store locked up.

Special labelling of certain mixtures

Restricted to professional users.

Other hazards

According to Regulation (EC) No 1907/2006 (REACH) none of the substances, contained in this product are a PBT / vPvB substance.

3. Composition/information on ingredients

Mixtures

Chemical characterization

Preparation with isocyanates and dichloromethane

Hazardous components

CAS No	Chemical name	Quantity
75-09-2	Dichloromethane	60 - < 80 % (*)
9016-87-9	Diphenylmethanediisocyanate, isomeres and homologues	20 - < 30 %

^(*) The actual concentration is withheld as a trade secret.

4. First-aid measures

Description of first aid measures

General information

Remove contaminated soaked clothing immediately.

In the event of persistent symptoms receive medical treatment.

Take away from danger area and lay down affected person.

After inhalation

Move to fresh air in case of accidental inhalation of vapours.

Refer for medical treatment.

After contact with skin

Wash off immediately with soap and plenty of water.

Consult a physician.

After contact with eyes

Remove contact lens.

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Seek medical treatment by eye specialist.

After ingestion

Do not induce vomiting.

Summon a doctor immediately.

Induce vomiting only upon the advice of a physician.

Attention. Beware, danger of aspiration.

Most important symptoms and effects, whether acute or delayed

Suspected of causing cancer.

Causes serious eye irritation.

Causes skin irritation.

May cause respiratory irritation.

May cause an allergic skin reaction.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause damage to organs through prolonged or repeated exposure.

May cause drowsiness or dizziness.



Safety Data Sheet

according to WHMIS

TIP TOP HARDENER UT-R20

Date (latest revision): 30.09.2025 Product code: 00156-0028 Page 3 of 9

Indication of immediate medical attention and special treatment needed

Treat symptoms.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media

Foam, carbon dioxide (CO2), dry chemical, water-spray.

Unsuitable extinguishing media

Full water jet.

Specific hazards arising from the hazardous product

Fire may produce:

Chlorine and traces of phosgene.

Hydrogen chloric gas.

Carbon monoxide (CO), carbon dioxide (CO2) and nitrogen oxides (NOx).

Hydrogen cyanide (HCN)

Special protective equipment and precautions for fire-fighters

Wear self-contained breathing apparatus and protective suit.

Additional information

Cool containers at risk with water spray jet.

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

General advice

Vapours are heavier than air and spread along ground.

Ensure adequate ventilation.

Remove persons to safety.

For non-emergency personnel

Do not breathe vapours.

Avoid contact with skin, eyes and clothing.

For emergency responders

In case of vapour formation use respirator.

Use personal protective clothing.

Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

Do not discharge into the subsoil/soil.

Methods and material for containment and cleaning up

For containment

Prevent spread over a wide area (e.g. by containment or oil barriers).

For cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder).

Shovel into suitable container for disposal.

Container should not be gas-tight closed.

Container can be pressurized by carbon dioxide due to reaction with humid air and/or water.

Reference to other sections

Observe protective instructions (see Sections 7 and 8).

Information for disposal look up chapter 13.

7. Handling and storage



according to WHMIS

TIP TOP HARDENER UT-R20

Date (latest revision): 30.09.2025 Product code: 00156-0028 Page 4 of 9

Precautions for safe handling

Advice on safe handling

Keep container tightly closed.

Vapours are heavier than air and spread along ground.

Do not breathe vapours.

Local exhaust.

Use only in thoroughly ventilated areas.

Advice on protection against fire and explosion

Keep away from heat and sources of ignition.

Advice on general occupational hygiene

Do not inhale vapours.

Avoid contact with eyes and skin.

Wash hands before breaks and immediately after handling the product.

When using do not eat, drink or smoke.

Take off immediately all contaminated clothing.

Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep containers tightly closed in a cool, well-ventilated place.

Avoid temperatures above 40°C.

Hints on joint storage

Exothermic reaction with:

Alcohol, Amines, Alkaline metals, Acids and bases.

Further information on storage conditions

Keep away from food, drink and animal feeding stuffs.

Container can be pressurized by carbon dioxide due to reaction with humid air and/or water.

8. Exposure controls/Personal protection

Control parameters

Exposure limits (ACGIH)

CAS No	Chemical name	ppm	mg/m³	F/ml	Category	Origin
75-09-2	Dichloromethane	50	174		TWA (8 h)	ACGIH-2024

Biological limit values

CAS No	Chemical name	Parameter	Value	Test material	Sampling time
75-09-2	DICHLOROMETHANE (ACGIH 2024)	Dichloromethane	0.3 mg/L	urine	End of shift

Exposure controls

Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment

Eye/face protection

Tightly fitting goggles.

Eye wash bottle with pure water.

Hand protection

Splash protection:

Protective gloves resistant to chemicals made off viton, Minimum coat thickness 0,7 mm, Permeation resistance (wear duration) approx. 120 minutes, i.e. protective glove < Vitoject 890> made by www.kcl.de.



according to WHMIS

TIP TOP HARDENER UT-R20

Date (latest revision): 30.09.2025 Product code: 00156-0028 Page 5 of 9

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.

Skin protection

Long sleeved clothing.

Respiratory protection

In case of insufficient ventilation wear suitable respiratory equipment (gas filter type AX).

9. Physical and chemical properties

Physical state:	Liquid	
Colour:	Amber	
Odour:	Characteristic	
Changes in the physical state		_
Melting point/freezing point:	ad	n.o n.o
Boiling point or initial boiling point ar boiling range:	id	11.0
Sublimation point:		n.o
Softening point:		n.o
Pour point:		n.c
Flash point:		> 61 °
Flammability		
Solid/liquid:		n.a
Explosive properties The product is not explosive.		
Lower explosive limits:		n.c
Upper explosive limits:		n.
Auto-ignition temperature:		n.e
Self-ignition temperature		
Solid:		n.a
Gas:		n.:
Decomposition temperature:		> 120 °
pH-Value:		n.o
Viscosity / dynamic:		n.c
Viscosity / kinematic:		n.o
Flow time:		n.
Water solubility:		Reacts with water
Solubility in other solvents n.d.		
Partition coefficient n-octanol/water:		n.c
Vapour pressure: (at 20 °C)		453 hP
Relative density (at 20 °C):		0,6
Bulk density:		n.a
Relative vapour density:		n.e



according to WHMIS

TIP TOP HARDENER UT-R20

Date (latest revision): 30.09.2025 Product code: 00156-0028 Page 6 of 9

Other information

Information with regard to physical hazard classes

Oxidizing properties

Non oxidizing.

Other safety characteristics

Solvent separation test:

Solvent content:

n.d.

Solid content:

28 %

Evaporation rate:

n.d.

Further Information

No data available

10. Stability and reactivity

Reactivity

No decomposition if stored normally.

Chemical stability

Stable under normal conditions.

Possibility of hazardous reactions

Reactions with strong acids and alkalies.

Reactions with alkali metals.

Conditions to avoid

To avoid thermal decomposition, do not overheat.

Container can be pressurized by carbon dioxide due to reaction with humid air and/or water.

Incompatible materials

Water, Alkaline metals, Amines, Alcohols, Strong acids and strong bases

Hazardous decomposition products

No hazardous decomposition products known.

Fire may produce:

Hydrogen cyanide gas.

Chlorine and traces of phosgene.

Hydrogen chloride gas

Carbon monoxide (CO), carbon dioxide (CO2) and nitrogen oxides (NOx)

11. Toxicological information

Information on toxicological effects

Acute toxicity

Based on available data, the classification criteria are not met.

No toxicological data available.

ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

Irritation and corrosivity

Skin corrosion/irritation: Causes skin irritation.

Serious eye damage/eye irritation: Causes serious eye irritation.

Sensitizing effects

May cause allergy or asthma symptoms or breathing difficulties if inhaled. (Diphenylmethanediisocyanate, isomeres and homologues)

May cause an allergic skin reaction. (Diphenylmethanediisocyanate, isomeres and homologues)



Safety Data Sheet

according to WHMIS

TIP TOP HARDENER UT-R20

Date (latest revision): 30.09.2025 Product code: 00156-0028 Page 7 of 9

Carcinogenic/mutagenic/toxic effects for reproduction

Suspected of causing cancer. (Dichloromethane; Diphenylmethanediisocyanate, isomeres and homologues)

Germ cell mutagenicity: Based on available data, the classification criteria are not met. Reproductive toxicity: Based on available data, the classification criteria are not met.

STOT-single exposure

May cause respiratory irritation. (Diphenylmethanediisocyanate, isomeres and homologues)

May cause drowsiness or dizziness. (Dichloromethane)

STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure. (Diphenylmethanediisocyanate, isomeres and homologues)

Aspiration hazard

Based on available data, the classification criteria are not met.

Information on likely routes of exposure

Skin and eye contact, inhalation and ingestion.

Additional information on tests

Classification in compliance with the assessment procedure specified in the Regulation (EC) no 1272/2008.

Information on other hazards

Endocrine disrupting properties

No data available

Other information

Inhalation of high vapour concentration may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

Hazard of lung oedema.

With hypersensitive people, reactions as cough or difficulty of breathing may appear even with tiny concentrations of isocyanates; therefore keep room aerated and ventilated.

12. Ecological information

Ecotoxicity

Ecological dates are not available.

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

Other adverse effects

Hazardous water pollutant.

Further information

Do not flush into surface water or sanitary sewer system.

13. Disposal considerations

Waste treatment methods

Disposal recommendations

Where possible recycling is preferred to disposal.

Can be incinerated, when in compliance with local regulations.



according to WHMIS

TIP TOP HARDENER UT-R20

Date (latest revision): 30.09.2025 Product code: 00156-0028 Page 8 of 9

Contaminated packaging

Empty containers should be taken for local recycling, recovery or waste disposal.

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.

Packaging that cannot be cleaned should be disposed of like the product.

14. Transport information

Canadian TDG

UN 1593

Proper shipping name: Dichloromethane, Solution

Hazard classes:6.1Packing group:IIIHazard label:6.1Limited quantity:5 L



Marine transport (IMDG)

UN number or ID number: UN 1593

United Nations proper shipping DICHLOROMETHANE, SOLUTION

name:

Transport hazard class(es):

Packing group:

Hazard label:

6.1



Marine pollutant: No

Limited quantity: 5 L / 30 kg
Excepted quantity: E1
EmS: F-A, S-A

Air transport (ICAO-TI/IATA-DGR)

UN number or ID number: UN 1593

<u>United Nations proper shipping</u> DICHLOROMETHANE, SOLUTION

name:

Transport hazard class(es):6.1Packing group:IIIHazard label:6.1



Limited quantity Passenger: 2 L
Passenger LQ: Y642

Excepted quantity: E1

IATA-packing instructions - Passenger: 655
IATA-max. quantity - Passenger: 60 L
IATA-packing instructions - Cargo: 663
IATA-max. quantity - Cargo: 220 L

Environmental hazards



according to WHMIS

TIP TOP HARDENER UT-R20

Date (latest revision): 30.09.2025 Product code: 00156-0028 Page 9 of 9

ENVIRONMENTALLY HAZARDOUS: No

15. Regulatory information

Canadian regulations

DSL/NDSL inventory status

All components are listed on the DSL Inventory.

National Pollutant Release Inventory (NPRI)

Dichloromethane, CAS 75-09-2

16. Other information

Changes

This data sheet contains changes from the previous version in section(s): 2,9,12.

Abbreviations and acronyms

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route

RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses

ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure

IMDG = International Maritime Code for Dangerous Goods

IATA/ICAO = International Air Transport Association / International Civil Aviation Organization

MARPOL = International Convention for the Prevention of Pollution from Ships

IBC-Code = International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

REACH = Registration, Evaluation, Authorization and Restriction of Chemicals

CAS = Chemical Abstract Service

EN = European norm

ISO = International Organization for Standardization

DIN = Deutsche Industrie Norm

PBT = Persistent Bioaccumulative and Toxic

vPvB = Very Persistent and very Bio-accumulative

LD = Lethal dose

LC = Lethal concentration

EC = Effect concentration

IC = Median immobilisation concentration or median inhibitory concentration

Further Information

Data of sections 4 to 8, as well as 10 to 12, do not necessarily refer to the use and the regular handling of the product (in this sense consult package leaflet and expert information), but to release 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.

(n.a. = not applicable; n.d. = not determined)

(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)