

Revision Date: 02.08.2024 Date of last issue: 21.06.2022 Version 10.0

Print Date 02.08.2024

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name	:	SikaRoof [®] Solvent Welding Agent
REACH Registration Number	:	01-2119444314-46-XXXX
Substance name	:	tetrahydrofuran
EC-No.	:	203-726-8

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

Product use	: Special system
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1.3 Details of the supplier of the safety data sheet

Company name of supplier	:	Sika Schweiz AG
		Tüffenwies 16
		8048 Zürich
Telephone	:	+41 58 436 40 40
Telefax	:	-
E-mail address of person responsible for the SDS	:	EHS@ch.sika.com

1.4 Emergency telephone number

Tox Info Suisse CH-8028 Zurich +41(0)44 251 51 51 / Speed calling: 145

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 2	H225: Highly flammable liquid and vapour.
Acute toxicity, Category 4	H302: Harmful if swallowed.
Eye irritation, Category 2	H319: Causes serious eye irritation.
Carcinogenicity, Category 2	H351: Suspected of causing cancer.
Specific target organ toxicity - single ex- posure, Category 3, Central nervous system	H336: May cause drowsiness or dizziness.
Specific target organ toxicity - single ex-	H335: May cause respiratory irritation.

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

SikaRoof[®] Solvent Welding Agent



Revision Date: 02.08.2024 Date of last issue: 21.06.2022 Version 10.0

Print Date 02.08.2024

posure, Category 3, Respiratory system

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)					
Hazard pictograms :					
Signal word :	Danger				
Hazard statements :	H302 Ha H319 Ca H335 Ma H336 Ma	why flammable liquid and vapour. rmful if swallowed. uses serious eye irritation. any cause respiratory irritation. any cause drowsiness or dizziness. spected of causing cancer.			
Precautionary statements :	Prevention: P201 P210 P233 P261 P280	Obtain special instructions before use. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Avoid breathing mist or vapours. Wear protective gloves/ protective clothing/ eye protection/ face protection.			
	Response:				
	P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.			

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.



Revision Date: 02.08.2024 Date of last issue: 21.06.2022 Version 10.0

Print Date 02.08.2024

SECTION 3: Composition/information on ingredients

3.1 Substances

EC-No.

: 203-726-8

Components

Chemical name	CAS-No. EC-No.	Concentration (% w/w)	M-Factor, SCL, ATE
tetrahydrofuran Contains: methanol >= 0,1<= 0,5 %	109-99-9 203-726-8	100	specific concentration limit Eye Irrit. 2; H319 >= 25 % STOT SE 3; H335 >= 25 %
			Acute toxicity estimate Acute oral toxicity: 1.650 mg/kg

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice	:	Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance.
If inhaled	:	Move to fresh air. Consult a physician after significant exposure.
In case of skin contact	:	Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. If symptoms persist, call a physician.
In case of eye contact	:	Immediately flush eye(s) with plenty of water. Remove contact lenses. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
If swallowed	:	Do not induce vomiting without medical advice. Rinse mouth with water. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person.

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

SikaRoof[®] Solvent Welding Agent



Revision Date: 02.08.2024 Date of last issue: 21.06.2022	Version 10.0 2	Print Date 02.08.2024
4.2 Most important sympto	oms and effects, both acute and delayed	
Symptoms	 Gastrointestinal discomfort Cough Respiratory disorder Excessive lachrymation Loss of balance Vertigo See Section 11 for more detailed inform and symptoms. 	nation on health effects
Risks	: irritant effects Harmful if swallowed. Causes serious eye irritation. May cause respiratory irritation. May cause drowsiness or dizziness. Suspected of causing cancer.	
4.3 Indication of any imme	ediate medical attention and special treatment r	needed
Treatment	: Treat symptomatically.	

Suitable extinguishing media	:	Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
		Dry chemical

Unsuitable extinguishing : Water media

5.2 Special hazards arising from the substance or mixture

Hazardous combustion prod- : No hazardous combustion products are known ucts

5.3 Advice for firefighters

Special protective equipment	:	In the event of fire, wear self-contained breathing apparatus.
for firefighters		

Further information : Use water spray to cool unopened containers.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	:	Use personal protective equipment.	
		Remove all sources of ignition.	

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

SikaRoof[®] Solvent Welding Agent



Revision Date: 02.08.2024 Date of last issue: 21.06.2022		Version 10.0	Print Date 02.08.2024
		Deny access to unprotected persons. Beware of vapours accumulating to form tions. Vapours can accumulate in low ar	
6.2 Environmental precautions			
Environmental precautions	:	Prevent product from entering drains. If the product contaminates rivers and la respective authorities.	ikes or drains inform
6.3 Methods and material for co	nta	nment and cleaning up	
Methods for cleaning up	:	Contain spillage, and then collect with ne sorbent material, (e.g. sand, earth, diato miculite) and place in container for dispo / national regulations (see section 13).	maceous earth, ver-

6.4 Reference to other sections

For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling	
Advice on safe handling :	Do not breathe vapours or spray mist. Avoid exceeding the given occupational exposure limits (see section 8). Do not get in eyes, on skin, or on clothing. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the ap- plication area. Take precautionary measures against static discharge. Open drum carefully as content may be under pressure. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Follow standard hygiene measures when handling chemical products
Advice on protection against : fire and explosion	Use explosion-proof equipment. Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking. Take precautionary measures against electrostatic discharges.
Hygiene measures :	Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.
7.2 Conditions for safe storage, incl	luding any incompatibilities
Requirements for storage : areas and containers	Store in cool place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

SikaRoof[®] Solvent Welding Agent



Revision Date: 02.08.2024 Date of last issue: 21.06.2022	Version 10.0	Print Date 02.08.2024
	in accordance with local regulations.	
Further information on stor- age stability	: No decomposition if stored and applied a	as directed.
7.3 Specific end use(s)		
Specific use(s)	: Consult most current local Product Data use.	Sheet prior to any

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters *	Basis *	
tetrahydrofuran	109-99-9	TWA	50 ppm 150 mg/m3	2000/39/EC	
	Further inform	ation: Identifies the	possibility of signi	ficant uptake	
	through the sk		, , ,	·	
		STEL	100 ppm 300 mg/m3	2000/39/EC	
		STEL	100 ppm 300 mg/m3	CH SUVA	
Further information:		ation: Toxic by skin	on: Toxic by skin resorption possible; Substanc-		
	es, which are easily absored through the skin, can give by a tional skin resoption a substancial higher risk compared to a inhalation by the airways., National Institute for Occupationa			ared to only	
	Safety and He	Safety and Health, Institut National de Recherche et de Sécurité pour la prévention des accidents du travail et des maladies pro-			
		fessionnelles, Harm to the unborn child is not to be expected			
	when the OEL	when the OEL-value is respected			
		TWA	50 ppm 150 mg/m3	CH SUVA	

*The above mentioned values are in accordance with the legislation in effect at the date of the release of this safety data sheet.

Biological occupational exposure limits

Substance name	CAS-No.	Control parame- ters	Sampling time	Basis
tetrahydrofuran	109-99-9	tetrahydrofuran: 2 mg/l (Urine)	Immediately after exposure or after working hours	CH BAT
		tetrahydrofuran: 27.7 micromol per litre (Urine)	Immediately after exposure or after working hours	CH BAT

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

SikaRoof[®] Solvent Welding Agent



Revision Date: 02.08.2024 Date of last issue: 21.06.2022 Version 10.0

Print Date 02.08.2024

8.2 Exposure controls

Engineering measures

Maintain air concentrations below occupational exposure standards. Ensure adequate ventilation, especially in confined areas.

Personal protective equipmen	t
Eye/face protection :	Safety glasses with side-shields conforming to EN166 Eye wash bottle with pure water
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard must be worn at all times when handling chemical products. Reference number EN 374. Follow manufacturer specifications.
	Suitable for short time use or protection against splashes: Butyl rubber/nitrile rubber gloves (> 0,1 mm) Contaminated gloves should be removed. Suitable for permanent exposure: Viton gloves (0.4 mm), breakthrough time >30 min.
Skin and body protection :	Protective clothing (e.g. Safety shoes acc. to EN ISO 20345, long-sleeved working clothing, long trousers). Rubber aprons and protective boots are additionaly recommended for mixing and stirring work.
Respiratory protection :	In case of inadequate ventilation wear respiratory protection. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe work- ing limits of the selected respirator. organic vapor filter (Type A) A1: < 1000 ppm; A2: < 5000 ppm; A3: < 10000 ppm Ensure adequate ventilation. This can be achieved by local exhaust extraction or by general ventilation. (EN 689 - Meth- ods for determining inhalation exposure). This applies in par- ticular to the mixing / stirring area. In case this is not sufficent to keep the concentrations under the occupational exposure limits then respiration protection measures must be used.
Environmental exposure conti	rols
General advice	 Prevent product from entering drains. If the product contaminates rivers and lakes or drains inform

respective authorities.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

		liquid colourless
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according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

SikaRoof[®] Solvent Welding Agent



Revision Date: 02.08.2024 Date of last issue: 21.06.2022	Version 10.0	Print Date 02.08.2024
Odour	: ether-like	
Melting point/ range	: ca108 °C	
	. 60. 100 0	
Boiling point/boiling range	: ca. 66 °C	
Flammability (solid, gas)	: No data available	
Upper/lower flammability or	explosive limits	
Upper explosion limit / Up- per flammability limit	: Upper flammability limit 12 %(V)	
Lower explosion limit / Lower flammability limit	: Lower flammability limit 1,5 %(V)	
Flash point	: -21 °C Method: closed cup	
Auto-ignition temperature	: No data available	
Decomposition temperature	: No data available	
рН	: Not applicable	
Viscosity		
Viscosity, kinematic	: > 7 mm2/s (40 °C)	
Solubility(ies) Water solubility	: soluble	
Water condumy		
Partition coefficient: n- octanol/water	: No data available	
Vapour pressure	: 173 hPa	
Density	: ca. 0,89 g/cm3 (20 °C)	
Relative vapour density	: No data available	

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

SikaRoof[®] Solvent Welding Agent



evision Date: 02.08.2024 ate of last issue: 21.06.2022	Version 10.0	Print Date 02.08.2024
Particle characteristics	: No data available	
9.2 Other information		
No data available		
SECTION 10: Stability and	reactivity	
I0.1 Reactivity		
No dangerous reaction kn	own under conditions of normal use.	
10.2 Chemical stability		
The product is chemically	stable.	
10.3 Possibility of hazardous	reactions	
Hazardous reactions	: Stable under recommended storage c	conditions.
	Vapours may form explosive mixture v	with air.
10.4 Conditions to avoid		
Conditions to avoid	: Heat, flames and sparks.	
10.5 Incompatible materials		
Materials to avoid	: No data available	
10.6 Hazardous decompositi	on products	
	: No hazardous decomposition products	s are known.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity Harmful if swallowed.		
Components:		
tetrahydrofuran: Acute oral toxicity	: LD50 Oral (Rat): 1.650 mg/kg	
	Acute toxicity estimate: 1.650 mg/kg Method: Calculation method	
Acute inhalation toxicity	: LC50 (Rat): 54 mg/l Exposure time: 4 h	

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

SikaRoof[®] Solvent Welding Agent



Revision Date: 02.08.2024 Date of last issue: 21.06.2022	Version 10.0	Print Date 02.08.2024
	Test atmosphere: vapour	
Acute dermal toxicity :	LD50 Dermal (Rat): > 2.000 mg/kg	
Skin corrosion/irritation Not classified due to lack of data		
Serious eye damage/eye irritat Causes serious eye irritation.	ion	
Respiratory or skin sensitisati	on	
Skin sensitisation Not classified due to lack of data		
Respiratory sensitisation Not classified due to lack of data		
Germ cell mutagenicity Not classified due to lack of data		
Carcinogenicity Suspected of causing cancer.		
Reproductive toxicity Not classified due to lack of data		
STOT - single exposure May cause respiratory irritation. May cause drowsiness or dizzine	ess.	
STOT - repeated exposure Not classified due to lack of data		
Aspiration toxicity Not classified due to lack of data		
11.2 Information on other hazards		
Endocrine disrupting propertie	95	
Product: Assessment :	The substance/mixture does not contain comered to have endocrine disrupting properties REACH Article 57(f) or Commission Delegate (EU) 2017/2100 or Commission Regulation (levels of 0.1% or higher.	according to ed regulation

SECTION 12: Ecological information

12.1 Toxicity

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

SikaRoof[®] Solvent Welding Agent



Revision Date: 02.08.2024 Date of last issue: 21.06.2022	Version 10.0	Print Date 02.08.2024
12.2 Persistence and degradability No data available		
12.3 Bioaccumulative potential No data available		
12.4 Mobility in soil No data available		
12.5 Results of PBT and vPvB asse	ssment	
Product:		
Assessment :	This substance/mixture contains no component to be either persistent, bioaccumulative and to very persistent and very bioaccumulative (vPv 0.1% or higher	xic (PBT), or
12.6 Endocrine disrupting propertie	25	
Product:		
Assessment :	The substance/mixture does not contain comp ered to have endocrine disrupting properties a REACH Article 57(f) or Commission Delegated (EU) 2017/2100 or Commission Regulation (El levels of 0.1% or higher.	ccording to d regulation
12.7 Other adverse effects		
Product:		
Additional ecological infor- : mation	There is no data available for this product.	
SECTION 13: Disposal consider	ations	

13.1 Waste treatment methods

Product :	 The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
Waste code Switzerland	: 16 05 06 -



Revision Date: 02.08.2024 Date of last issue: 21.06.2022 Version 10.0

Print Date 02.08.2024

VeVA/LVA

SECTION 14: Transport information

14.1 UN number or ID number			
ADR	:	UN 2056	
IMDG	:	UN 2056	
ΙΑΤΑ	:	UN 2056	
14.2 UN proper shipping name			
ADR	:	TETRAHYDROFURA	N
IMDG	:	TETRAHYDROFURAN	
ΙΑΤΑ	:	Tetrahydrofuran	
14.3 Transport hazard class(es)			
		Class	Subsidiary risks
ADR	:	3	
IMDG	:	3	
ΙΑΤΑ	:	3	
14.4 Packing group			
ADR Packing group Classification Code Hazard Identification Number Labels Tunnel restriction code		II F1 33 3 (D/E)	
IMDG Packing group Labels EmS Code	:	(D/L) II 3 F-E, S-D	
IATA (Cargo) Packing instruction (cargo aircraft) Packing instruction (LQ) Packing group Labels	:	364 Y341 II Flammable Liquids	
IATA (Passenger) Packing instruction (passen- ger aircraft) Packing instruction (LQ) Packing group Labels	:	353 Y341 II Flammable Liquids	



Revision Date: 02.08.2024Version 10.0Print Date 02.08.2024Date of last issue: 21.06.2022

14.5 Environmental hazards

ADR Environmentally hazardous : no IMDG Marine pollutant : no IATA (Passenger) Environmentally hazardous : no IATA (Cargo) Environmentally hazardous : no

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

International Chemical Weapons Convention (CWC) : Not applicable Schedules of Toxic Chemicals and Precursors

REACH Information:

- All substances contained in our Products are
- registered by our upstream suppliers, and/or
- registered by us, and/or
- excluded from the regulation, and/or
- exempted from the registration.

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	:	Conditions of restriction for the fol- lowing entries should be considered: Number on list 3
		Number on list 40
		Number on list 75:
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	:	None of the components are listed (=> 0.1 %).
REACH - List of substances subject to authorisation (Annex XIV)	:	Not applicable

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

SikaRoof[®] Solvent Welding Agent



Revision Date: 02.08.2024 Date of last issue: 21.06.2022	Version 10.0	Print Date 02.08.2024
Regulation (EC) on substances th layer	at deplete the ozone : Not applicable	
Regulation (EU) 2019/1021 on pe tants (recast)	rsistent organic pollu- : Not applicable	
PIC Ordinance, ChemPICO (814.	82) : Not applicable	
Ordinance on Protection against N Threshold quantity according to N nance (MAO 814.012)		
Chemical Risk Reduction Ordinar (ORRChem, SR 814.81) Waters Protection Ordinance (WF	should be considered: Annex 1.11 Dangerous liquid su	-
Water pollution class :	slightly hazardous to water Code Number: 190 Classification according to AwSV §6(4)	
Volatile organic compounds :	Law on the incentive tax for volatile organ (VOCV) Volatile organic compounds (VOC) conter	
	Directive 2010/75/EU of 24 November 207 emissions (integrated pollution prevention Volatile organic compounds (VOC) conter	and control)

Other regulations:

Article 13 Maternity ordinance (SR 822.111.52): Expectant and nursing mothers are only permitted to come into contact with this product during the course of their work if, based on a risk assessment carried out in accordance with Article 63 of Ordinance 1 on the Employment Act (ArGV 1) (SR 822.111), the chemicals in question have been found not to cause any specific harm to mothers or children or if such harm can be ruled out by taking appropriate protective measures.

Take note of Directive 92/85/EEC regarding maternity protection or stricter national regulations, where applicable.

Young people undergoing basic vocational training may only work with this product if the relevant training ordinance makes provision for them to do so with a view to enabling them to achieve their training objectives and if the preconditions for the training plan have been met and the applicable age restrictions have been complied with. Young people who are not completing any basic vocational training are not permitted to work with this product. Employees of either sex who are under 18 years old are classed as young people.

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

SikaRoof[®] Solvent Welding Agent



Revision Date: 02.08.2024 Date of last issue: 21.06.2022 Version 10.0

Print Date 02.08.2024

15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance by the supplier.

SECTION 16: Other information

Full text of other abbreviations				
2000/39/EC	:	Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values		
СН ВАТ		Switzerland. List of BAT-values		
CH SUVA	:	Switzerland. Limit values at the work place		
2000/39/EC / TWA	÷	Limit Value - eight hours		
2000/39/EC / STEL	÷	Short term exposure limit		
CH SUVA / TWA	:	Time Weighted Average		
CH SUVA / STEL	:	Short Term Exposure Limit		
ADR	:	European Agreement concerning the International Carriage of Dangerous Goods by Road		
CAS	:	Chemical Abstracts Service		
DNEL	:	Derived no-effect level		
EC50	:	Half maximal effective concentration		
GHS	:	Globally Harmonized System		
ΙΑΤΑ	:	International Air Transport Association		
IMDG	:	International Maritime Code for Dangerous Goods		
LD50	:	Median lethal dosis (the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals)		
LC50	:	Median lethal concentration (concentrations of the chemical in air that kills 50% of the test animals during the observation period)		
MARPOL	:	International Convention for the Prevention of Pollution from Ships, 1973 as modified by the Protocol of 1978		
OEL	:	Occupational Exposure Limit		
PBT	:	Persistent, bioaccumulative and toxic		
PNEC	:	Predicted no effect concentration		
REACH	:	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Reg- istration, Evaluation, Authorisation and Restriction of Chemi- cals (REACH), establishing a European Chemicals Agency		
SVHC	:	Substances of Very High Concern		
vPvB	:	Very persistent and very bioaccumulative		

Further information

The information contained in this Safety Data Sheet corresponds to our level of knowledge at the time of publication. All warranties are excluded. Our most current General Sales Conditions shall apply. Please consult the product data sheet prior to any use and processing.

Changes as compared to previous version !

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

SikaRoof[®] Solvent Welding Agent

Revision Date: 02.08.2024 Date of last issue: 21.06.2022

CH / EN

Version 10.0



Print Date 02.08.2024