# Safety Data Sheet

according to UK REACH Regulation

## Asplit® CN Solution



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

### 1.1. Product identifier

Asplit® CN Solution

**Art.-No.**

592 0020, 592 0021, 592 0022, 592 0023

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

**Use of the substance/mixture**

Mortar

### 1.3. Details of the supplier of the safety data sheet

**Manufacturer**

| | |
|---|---|
| Company name: | TIP TOP Oberflaechenschutz Elbe GmbH |
| Street: | Heuweg 4 |
| Place: | D-06886 Wittenberg |
| Telephone: | +49(0)3491/635-50 Telefax: +49(0)3491/635-552 |
| Responsible Department: | Responsible for the safety data sheet: sds@gbk-ingelheim.de |

**Supplier**

| | |
|---|---|
| Company name: | REMA TIP TOP INDUSTRY UK LTD |
| Street: | Plumtree Industrial Estate, Harworth |
| Place: | Doncaster, DN11 8EW, South Yorkshire |
| Telephone: | +44 (0)1302 711233 |
| Internet: | www.rema-tiptop.co.uk |

### 1.4. Emergency telephone number:

INTERNATIONAL: +49 - (0) 6132 - 84463, GBK GmbH (24h - 7d/w - 365d/a)
In England and Wales: NHS 111 In Scotland: NHS 24 - dial 111

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

**GB CLP Regulation**

Acute Tox. 3; H301
Acute Tox. 4; H312
Acute Tox. 4; H332
Skin Corr. 1B; H314
Skin Sens. 1A; H317
Muta. 2; H341
Carc. 1B; H350
STOT SE 3; H335
Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

### 2.2. Label elements

**GB CLP Regulation**

**Hazard components for labelling**

2-Furaldehyde
Phenol
formaldehyde
N-(3-(trimethoxysilyl)propyl)ethylenediamine

**Signal word:** Danger

**Pictograms:**

**Hazard statements**

| | |
|---|---|
| H301 | Toxic if swallowed. |
| H312+H332 | Harmful in contact with skin or if inhaled. |
| H335 | May cause respiratory irritation. |
| H314 | Causes severe skin burns and eye damage. |
| H317 | May cause an allergic skin reaction. |
| H341 | Suspected of causing genetic defects. |
| H350 | May cause cancer. |
| H412 | Harmful to aquatic life with long lasting effects. |

**Precautionary statements**

| | |
|---|---|
| P201 | Obtain special instructions before use. |
| P202 | Do not handle until all safety precautions have been read and understood. |
| P260 | Do not breathe vapour. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P308+P313 | IF exposed or concerned: Get medical advice/attention. |
| P405 | Store locked up. |
| P273 | Avoid release to the environment. |

**Special labelling of certain mixtures**

Restricted to professional users.

### 2.3. Other hazards

According to Regulation (EC) No 1907/2006 (REACH) none of the substances, contained in this product are a PBT / vPvB substance.
The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605
Vapours may form explosive mixture with air.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

**Chemical characterization**

Mixture containing following substances with additives

**Hazardous components**

| CAS No | Chemical name | | | Quantity |
|---|---|---|---|---|
| | EC No | Index No | REACH No | |
| | GHS Classification | | | |
| 98-01-1 | 2-Furaldehyde | | | < 30 % |
| | 202-627-7 | 605-010-00-4 | 01-2119486861-27 | |
| | Carc. 2, Acute Tox. 3, Acute Tox. 3, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, STOT SE 3; H351 H331 H301 H312 H315 H319 H335 | | | |
| 108-95-2 | Phenol | | | < 10 % |
| | 203-632-7 | 604-001-00-2 | 01-2119471329-32 | |
| | Muta. 2, Acute Tox. 3, Acute Tox. 3, Acute Tox. 3, Skin Corr. 1B, STOT RE 2, Aquatic Chronic 2; H341 H331 H311 H301 H314 H373 H411 | | | |
| 50-00-0 | formaldehyde | | | < 1 % |
| | 200-001-8 | 605-001-00-5 | 01-2119488953-20 | |
| | Carc. 1B, Muta. 2, Acute Tox. 3, Acute Tox. 3, Acute Tox. 3, Skin Corr. 1B, Skin Sens. 1A; H350 H341 H331 H311 H301 H314 H317 | | | |
| 1760-24-3 | N-(3-(trimethoxysilyl)propyl)ethylenediamine | | | < 1 % |
| | 217-164-6 | | 01-2119970215-39 | |
| | Eye Dam. 1, Skin Sens. 1; H318 H317 | | | |

Full text of H and EUH statements: see section 16.

**Specific Conc. Limits, M-factors and ATE**

| CAS No | EC No | Chemical name | Quantity |
|---|---|---|---|
| | Specific Conc. Limits, M-factors and ATE | | |
| 98-01-1 | 202-627-7 | 2-Furaldehyde | < 30 % |
| | inhalation: ATE = 3 mg/l (vapours); inhalation: ATE = 0,5 mg/l (dusts or mists); dermal: ATE = 1100 mg/kg; oral: LD50 = 65 mg/kg | | |
| 108-95-2 | 203-632-7 | Phenol | < 10 % |
| | inhalation: ATE = 3 mg/l (vapours); inhalation: ATE = 0,5 mg/l (dusts or mists); dermal: ATE = 300 mg/kg; oral: ATE = 100 mg/kg Skin Corr. 1B; H314: >= 3 - 100 Skin Irrit. 2; H315: >= 1 - < 3 Eye Irrit. 2; H319: >= 1 - < 3 | | |
| 50-00-0 | 200-001-8 | formaldehyde | < 1 % |
| | inhalation: ATE = 3 mg/l (vapours); inhalation: LC50 = 0,578 mg/l (dusts or mists); dermal: LD50 = 270 mg/kg; oral: LD50 = 600 - 800 mg/kg Skin Corr. 1B; H314: >= 25 - 100 Skin Irrit. 2; H315: >= 5 - < 25 Eye Irrit. 2; H319: >= 5 - < 25 Skin Sens. 1; H317: >= 0,2 - 100 STOT SE 3; H335: >= 5 - 100 | | |

## SECTION 4: First aid measures

### 4.1. 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.
Seek medical treatment immediately.

**After contact with skin**

Wash off immediately with soap and plenty of water.
Consult a doctor if skin irritation persists.

**After contact with eyes**

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Consult (eye) doctor immediately.

**After ingestion**

Do not induce vomiting.
Summon a doctor immediately.
Rinse out mouth and give plenty of water to drink.
Never give anything by mouth to an unconscious person.
Induce vomiting only upon the advice of a physician.

**4.2. Most important symptoms and effects, both acute and delayed**

May cause cancer.
Suspected of causing genetic defects.
Toxic if swallowed.
Harmful in contact with skin or if inhaled.
Causes severe skin burns and eye damage.
May cause an allergic skin reaction.
May cause respiratory irritation.

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

Treat symptoms.
Attention. Phenols in high amounts cause local anesthetic effects so that pain due to burns may be delayed.

## SECTION 5: Firefighting measures

**5.1. Extinguishing media**

**Suitable extinguishing media**

Alcohol-resistant foam, dry chemical, carbon dioxide (CO2), water-spray.

**Unsuitable extinguishing media**

Full water jet

**5.2. Special hazards arising from the substance or mixture**

Fire may produce:
carbon monoxide and carbon dioxide
Irritant/corrosive, flammable as well as toxic distillation gases (carbonization gases).

**5.3. Advice for firefighters**

Wear self-contained breathing apparatus and protective suit.

**Additional information**

Vapours are heavier than air and spread along ground.
The vapour/air mixture is explosive, even in empty, uncleaned receptacles.
Cool containers at risk with water spray jet.
Collect contaminated firefighting water separately, must not be discharged into the drains.
Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

## SECTION 6: Accidental release measures

**6.1. Personal precautions, protective equipment and emergency procedures**

**General advice**

Ensure adequate ventilation.
Remove persons to safety.
Keep away sources of ignition.

**For emergency responders**

In case of vapour formation use respirator.
Use personal protective clothing.

### 6.2. Environmental precautions

Do not discharge into the drains/surface waters/ground water.
Do not discharge into the subsoil/soil.

### 6.3. 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.

### 6.4. Reference to other sections

Observe protective instructions (see Sections 7 and 8).
Information for disposal see section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Advice on safe handling**

Keep container tightly closed.
Vapours are heavier than air and spread along ground.
Use only in thoroughly ventilated areas.
Provide suitable extraction at the processing machines.

**Advice on protection against fire and explosion**

Keep away from heat and sources of ignition.
Take measures against electrostatically charging.

### 7.2. Conditions for safe storage, including any incompatibilities

**Requirements for storage rooms and vessels**

Keep container tightly closed in a dry, cool and well-ventilated place.

**Hints on joint storage**

Incompatible with acids.

**Further information on storage conditions**

Keep away from food, drink and animal feeding stuffs.

### 7.3. Specific end use(s)

Mortar

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

**Exposure limits (EH40)**

| CAS No | Substance | ppm | mg/m³ | fibres/ml | Category | Origin |
|---|---|---|---|---|---|---|
| 98-01-1 | 2-Furaldehyde (furfural) | 2 | 8 | | TWA (8 h) | WEL |
| | | 5 | 20 | | STEL (15 min) | WEL |
| 50-00-0 | Formaldehyde | 2 | 2.5 | | TWA (8 h) | WEL |
| | | 2 | 2.5 | | STEL (15 min) | WEL |
| 108-95-2 | Phenol | 2 | 7.8 | | TWA (8 h) | WEL |
| | | 4 | 16 | | STEL (15 min) | WEL |

### 8.2. Exposure controls

**Appropriate engineering controls**

Ensure adequate ventilation, especially in confined areas.
Pay attention to explosion protection guidelines.

**Protective and hygiene measures**

Do not inhale vapours.
Wash hands before breaks and immediately after handling the product.
When using do not eat, drink or smoke.
Treat subsequently with skin cream.
Remove and wash contaminated clothes before re-use.

**Eye/face protection**

Tightly fitting goggles (EN 166).
Eye wash bottle with pure water (EN 15154).

**Hand protection**

Protective gloves resistant to chemicals made off butyl, minimum coat thickness 0.7 mm, permeation resistance approx. 480 minutes, i.e. protective glove <Butoject 898> made by www.kcl.de.
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 (DIN EN ISO 6530)
Solvent-resistant apron (EN 467).

**Respiratory protection**

In case of insufficient ventilation wear suitable respiratory equipment (gas filter type A) (EN 14387).

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

| | |
|---|---|
| Physical state: | Liquid |
| Colour: | Dark brown |
| Odour: | Like phenoles |

| | | Test method |
|---|---|---|
| pH-Value: | n.d. | |
| **Changes in the physical state** | | |
| Melting point/freezing point: | n.d. | |
| Boiling point or initial boiling point and boiling range: | 100 - 200 °C | |
| Sublimation point: | n.a. | |
| Softening point: | n.d. | |
| Flash point: | 78 °C | DIN EN ISO 2719 |
| **Flammability** | | |
| Solid/liquid: | n.a. | |
| **Explosive properties** | | |
| The product is considered non-explosive; nevertheless explosive vapour/air mixture can be generated. | | |
| Lower explosion limits: | 2,1 | (*) |
| Upper explosion limits: | 19,3 | (*) |
| Auto-ignition temperature: | 315 °C | (*) |
| **Self-ignition temperature** | | |
| Solid: | n.a. | |

| | | |
|---|---|---|
| Gas: | n.a. | |
| Decomposition temperature: | > 110 °C | |
| **Oxidizing properties** | | |
| Not oxidising. | | |
| Vapour pressure: | ~ 1,4 hPa | (*) |
| Density: | 1,221 g/cm³ | |
| Bulk density: | n.a. | |
| Water solubility: (at 20 °C) | Partially soluble | |
| **Solubility in other solvents** | | |
| n.d. | | |
| Partition coefficient n-octanol/water: | n.d. | |
| Viscosity / dynamic: (at 23 °C) | 125 - 165 mPa·s | ISO 3219 |
| Viscosity / kinematic: | n.d. | |
| Flow time: | n.d. | |
| Relative vapour density: | n.d. | |
| Evaporation rate: | n.d. | |
| Solvent separation test: | n.d. | |
| Solvent content: | n.d. | |

**9.2. Other information**

(*) Solvent

## SECTION 10: Stability and reactivity

**10.1. Reactivity**

No decomposition if stored and applied as directed.

**10.2. Chemical stability**

Stable under normal conditions.

**10.3. Possibility of hazardous reactions**

Reactions with strong acids.

**10.4. Conditions to avoid**

To avoid thermal decomposition, do not overheat.
Vapour/air mixtures are explosive at intensive warming.
Heating can release vapours which can be ignited.
Avoid temperatures above 25°C .

**10.5. Incompatible materials**

Strong acids

**10.6. Hazardous decomposition products**

No hazardous decomposition products known.
Fire may produce:
Irritant/corrosive, flammable as well as toxic distillation gases (carbonization gases).
Carbon monoxide and carbon dioxide

## SECTION 11: Toxicological information

**11.1. Information on hazard classes as defined in GB CLP Regulation**

**Acute toxicity**

Toxic if swallowed.
Harmful in contact with skin.
Harmful if inhaled.
No toxicological data available.

**ATEmix calculated**

ATE (oral) 224,2 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) 9,400 mg/l; ATE (inhalation dust/mist) 1,418 mg/l

**Irritation and corrosivity**

Causes severe skin burns and eye damage.

**Sensitising effects**

May cause an allergic skin reaction. (formaldehyde; N-(3-(trimethoxysilyl)propyl)ethylenediamine)

**Carcinogenic/mutagenic/toxic effects for reproduction**

Suspected of causing genetic defects. (Phenol; formaldehyde)
May cause cancer. (formaldehyde)
Reproductive toxicity: Based on available data, the classification criteria are not met.

**STOT-single exposure**

May cause respiratory irritation. (2-Furaldehyde)

**STOT-repeated exposure**

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

**Aspiration hazard**

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

**Additional information on tests**

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

### 11.2. Information on other hazards

**Endocrine disrupting properties**

No data available

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecological data are not available.
Harmful to aquatic life with long lasting effects.

### 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 assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

### 12.6. 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.

### 12.7. Other adverse effects

Hazardous water pollutant.

**Further information**

Do not flush into surface water or sanitary sewer system.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**Disposal recommendations**

Can be incinerated, when in compliance with local regulations.
Where possible recycling is preferred to disposal.

**List of Wastes Code - residues/unused products**

080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other hazardous substances; hazardous waste

**Contaminated packaging**

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.

## SECTION 14: Transport information

**Land transport (ADR/RID)**

| | |
|---|---|
| **14.1. UN number:** | UN 2927 |
| **14.2. UN proper shipping name:** | TOXIC LIQUID, CORROSIVE, ORGANIC, N.O.S. (2-Furaldehyde, Phenol) |
| **14.3. Transport hazard class(es):** | 6.1 |
| **14.4. Packing group:** | II |
| Hazard label: | 6.1+8 |


| | |
|---|---|
| Classification code: | TC1 |
| Special Provisions: | 274 |
| Limited quantity: | 100 mL / 30 kg |
| Excepted quantity: | E4 |
| Transport category: | 2 |
| Hazard No: | 68 |
| Tunnel restriction code: | D/E |

**Inland waterways transport (ADN)**

| | |
|---|---|
| **14.1. UN number:** | UN 2927 |
| **14.2. UN proper shipping name:** | TOXIC LIQUID, CORROSIVE, ORGANIC, N.O.S. (2-Furaldehyde, Phenol) |
| **14.3. Transport hazard class(es):** | 6.1 |
| **14.4. Packing group:** | II |
| Hazard label: | 6.1+8 |


| | |
|---|---|
| Classification code: | TC1 |
| Special Provisions: | 274 802 |
| Limited quantity: | 100 mL / 30 kg |
| Excepted quantity: | E4 |

**Marine transport (IMDG)**

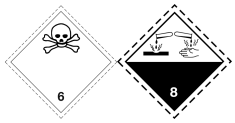
| | |
|---|---|
| **14.1. UN number:** | UN 2927 |

**14.2. UN proper shipping name:** TOXIC LIQUID, CORROSIVE, ORGANIC, N.O.S. (2-Furaldehyde, phenol)

**14.3. Transport hazard class(es):** 6.1

**14.4. Packing group:** II

Hazard label: 6.1+8




Marine pollutant: Yes
Special Provisions: 274
Limited quantity: 100 mL / 30 kg
Excepted quantity: E4
EmS: F-A, S-B

**Air transport (ICAO-TI/IATA-DGR)**

**14.1. UN number:** UN 2927

**14.2. UN proper shipping name:** TOXIC LIQUID, CORROSIVE, ORGANIC, N.O.S. (2-Furaldehyde, phenol, solution)

**14.3. Transport hazard class(es):** 6.1

**14.4. Packing group:** II

Hazard label: 6.1+8


Special Provisions: A4 A137
Limited quantity Passenger: 0.5 L
Passenger LQ: Y640
Excepted quantity: E4

| | |
|---|---|
| IATA-packing instructions - Passenger: | 653 |
| IATA-max. quantity - Passenger: | 1 L |
| IATA-packing instructions - Cargo: | 660 |
| IATA-max. quantity - Cargo: | 30 L |

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

**14.6. Special precautions for user**

Handle in accordance with good industrial hygiene and safety practice.

**14.7. Maritime transport in bulk according to IMO instruments**

The transport takes place only in approved and appropriate packaging.

## SECTION 15: Regulatory information

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

**EU regulatory information**

Restrictions on use (REACH, annex XVII):
Entry 3, Entry 28, Entry 75

2004/42/EC (VOC): 29 %
Information according to 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

**National regulatory information**

| | |
|---|---|
| Employment restrictions: | Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers. |
| Water hazard class (D): | 2 - obviously hazardous to water |

**Additional information**

Consider Chemical prohibition regulation.

### 15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

## SECTION 16: Other information

**Changes**

This data sheet contains changes from the previous version in section(s): 2,6,7,8,10,11,12,14.

**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

**Classification for mixtures and used evaluation method according to GB CLP Regulation**

| Classification | Classification procedure |
|---|---|
| Acute Tox. 3; H301 | Calculation method |
| Acute Tox. 4; H312 | Calculation method |
| Acute Tox. 4; H332 | Calculation method |
| Skin Corr. 1B; H314 | Calculation method |
| Skin Sens. 1A; H317 | Calculation method |
| Muta. 2; H341 | Calculation method |
| Carc. 1B; H350 | Calculation method |
| STOT SE 3; H335 | Calculation method |
| Aquatic Chronic 3; H412 | Calculation method |

**Relevant H and EUH statements (number and full text)**

H301 Toxic if swallowed.

| | |
|---|---|
| H311 | Toxic in contact with skin. |
| H312 | Harmful in contact with skin. |
| H312+H332 | Harmful in contact with skin or if inhaled. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H331 | Toxic if inhaled. |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |
| H341 | Suspected of causing genetic defects. |
| H350 | May cause cancer. |
| H351 | Suspected of causing cancer. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |

**Further Information**

Data of items 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.
(n.a. = not applicable; n.d. = not determined)

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