

**Safety Data Sheet**

according to 29 CFR 1910.1200(g)

**DINITROL 538 PLUS**

Revision date: 11/13/2025

Product code: 10730

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**1. Identification**
**Product identifier**

DINITROL 538 PLUS

**Recommended use of the chemical and restrictions on use**
**Use of the substance/mixture**

Adhesion promoter

**Details of the supplier of the safety data sheet**
**Manufacturer**

Company name:	DINOL GmbH	
Street:	Pyrmonter Strasse 76	
Place:	D-32676 Luegde	
Telephone:	+ 49 (0) 5281 982980	Telefax: + 49 (0) 5281 9829860
E-mail:	msds@dinol.com	
Contact person:	Labor	
Internet:	www.dinol.com	
Responsible Department:	msds@dinol.com	

**Supplier**

Company name:	DINOL U.S. Inc.	
Street:	8500 Cotter Street, Lewis Center	
Place:	USA-43035 Ohio	
Telephone:	740-548-1656	Telefax: 740-548-1657
E-mail:	info@dinolus.com	
Internet:	www.dinol.com	

**Emergency phone number:** 3E Company Emergency +1-866-404-4230

**2. Hazard(s) identification**
**Classification of the chemical**
**29 CFR Part 1910.1200**

Flammable liquids: Flam. Liq. 2  
 Carcinogenicity: Carc. 2  
 Serious eye damage/eye irritation: Eye Irrit. 2A  
 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)

**Label elements**
**29 CFR Part 1910.1200**
**Signal word:** Danger

**Pictograms:**

**Hazard statements**

Highly flammable liquid and vapor  
 May cause an allergic skin reaction  
 Causes serious eye irritation  
 May cause allergy or asthma symptoms or breathing difficulties if inhaled  
 May cause drowsiness or dizziness  
 Suspected of causing cancer

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#### Precautionary statements

Obtain special instructions before use.  
 Do not handle until all safety precautions have been read and understood.  
 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
 Keep container tightly closed.  
 Ground/bond container and receiving equipment.  
 Use explosion-proof electrical/ventilating/lighting equipment.  
 Use only non-sparking tools.  
 Take precautionary measures against static discharge.  
 Avoid breathing dust/fume/gas/mist/vapors/spray.  
 Wash hands thoroughly after handling.  
 Use only outdoors or in a well-ventilated area.  
 Contaminated work clothing must not be allowed out of the workplace.  
 Wear protective gloves/protective clothing/eye protection/face protection.  
 Wear respiratory protection.  
 If on skin: Wash with plenty of water.  
 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.  
 If experiencing respiratory symptoms: Call a poison center/doctor.  
 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.  
 Continue rinsing.  
 If eye irritation persists: Get medical advice/attention.  
 If exposed or concerned: Get medical advice/attention.  
 In case of fire: Use Water spray jet, Extinguishing powder, Carbon dioxide (CO<sub>2</sub>) to extinguish.  
 Store in a well-ventilated place. Keep cool.  
 Store locked up.

#### Hazards not otherwise classified

Endocrine disrupting properties: butanone; ethyl methyl ketone.  
 No information available.

### 3. Composition/information on ingredients

#### Mixtures

##### Relevant ingredients

CAS No	Components	Quantity
78-93-3	butanone; ethyl methyl ketone	65 %
108-65-6	2-methoxy-1-methylethyl acetate	7.5 %
28182-81-2	Hexamethylene diisocyanate, oligomers	7.5 %
1333-86-4	Carbon Black	5 %
123-86-4	n-butyl acetate	1.5 %
1330-20-7	xylene	1.5 %
100-41-4	ethylbenzene	0.9 %
9016-87-9	Diphenylmethanediisocyanate, isomeres and homologues	0.9 %

#### Further Information

Full text of H statements: see section 16.

### 4. First-aid measures

#### Description of first aid measures

##### General information

In all cases of doubt, or when symptoms persist, seek medical advice.

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Never give anything by mouth to an unconscious person or a person with cramps.  
If unconscious but breathing normally, place in recovery position and seek medical advice.

**After inhalation**

Remove casualty to fresh air and keep warm and at rest.

**After contact with skin**

Change contaminated clothing.  
After contact with skin, wash immediately with plenty of water and soap.

**After contact with eyes**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.  
Continue rinsing. Seek medical advice immediately.

**After ingestion**

If swallowed, rinse mouth with water (only if the person is conscious).  
Do NOT induce vomiting.  
Call a physician immediately.  
Put victim at rest, cover with a blanket and keep warm.

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

No information available.

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

Treat symptomatically.

**5. Fire-fighting measures****Extinguishing media****Suitable extinguishing media**

Carbon dioxide (CO<sub>2</sub>), Extinguishing powder. Water spray jet  
In case of major fire and large quantities: Water spray jet, alcohol resistant foam.

**Unsuitable extinguishing media**

High power water jet.

**Specific hazards arising from the chemical**

No further relevant information available.

**Special protective equipment and precautions for fire-fighters**

No special measures are necessary.

**Additional information**

Use water spray/stream to protect personnel and to cool endangered containers. Suppress gases/vapors/mists with water spray jet.  
Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

**6. Accidental release measures****Personal precautions, protective equipment and emergency procedures****General advice**

Provide adequate ventilation.  
Wear personal protection equipment.  
Avoid contact with skin, eyes and clothes.  
Avoid breathing dust/fume/gas/mist/vapors/spray.

**For emergency responders**

For further specification, refer to section 8 of the SDS.

**Environmental precautions**

Do not allow uncontrolled discharge of product into the environment.  
In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

**Methods and material for containment and cleaning up**

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#### For containment

- Prevent spread over a wide area (e.g. by containment or oil barriers).
- Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).
- Treat the recovered material as prescribed in the section on waste disposal.

#### For cleaning up

- Provide adequate ventilation.
- Clear contaminated areas thoroughly.
- Do not rinse down with water.

#### Other information

- No information available.

#### Reference to other sections

- Safe handling: see section 7
- Personal protection equipment (PPE): see section 8
- Disposal: see section 13

## 7. Handling and storage

### Precautions for safe handling

#### Advice on safe handling

- If handled uncovered, arrangements with local exhaust ventilation have to be used.
- If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

#### Advice on protection against fire and explosion

- Keep away from sources of ignition - No smoking.
- Take precautionary measures against static discharges.

#### Advice on general occupational hygiene

- The usual precautionary measures are to be adhered to when handling chemicals.
- Keep away from food, drink and animal feedingstuffs. Remove contaminated, saturated clothing immediately.
- Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

### Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

- Keep container tightly closed.
- Provide adequate ventilation as well as local exhaustion at critical locations. Keep in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

#### Hints on joint storage

- No special measures are necessary.

#### Further information on storage conditions

- maximum storage temperature: < 40°C
- minimum storage temperature: > 4°C
- storage temperature: 4 - 40°C

## 8. Exposure controls/personal protection

### Control parameters

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**Exposure limits**

CAS No	Substance	ppm	mg/m <sup>3</sup>	Category	Origin
78-93-3	2-Butanone (Methyl ethyl ketone)	200	590	TWA (8 h)	PEL
78-93-3	2-Butanone	200	590	TWA (8 h)	REL
		300	885	STEL (15 min)	REL
1333-86-4	Carbon black (in presence of polycyclic aromatic hydrocarbons (PAHs)) (as PAHs)	-	0.1	TWA (8 h)	REL
1333-86-4	Carbon black (inhalable fraction)		3	TWA (8 h)	ACGIH-2024
1333-86-4	Carbon black	-	3.5	TWA (8 h)	PEL
100-41-4	Ethyl benzene	100	435	TWA (8 h)	PEL
		100	435	TWA (8 h)	REL
		125	545	STEL (15 min)	REL
100-41-4	Ethyl benzene	20		TWA (8 h)	ACGIH-2024
78-93-3	Methyl ethyl ketone	75		TWA (8 h)	ACGIH-2024
		150		STEL (15 min)	ACGIH-2024
123-86-4	n-Butyl acetate	150	710	TWA (8 h)	REL
		200	950	STEL (15 min)	REL
123-86-4	n-Butyl acetate	50	238	TWA (8 h)	ACGIH-2024
		150	712	STEL (15 min)	ACGIH-2024
123-86-4	n-Butyl-acetate	150	710	TWA (8 h)	PEL
1330-20-7	Xylene: mixed isomers	20		TWA (8 h)	ACGIH-2024
1330-20-7	Xylenes (o-,m-,p-isomers)	100	435	TWA (8 h)	PEL

**Biological Exposure Indices (BEI-ACGIH)**

CAS No	Substance	Determinant	Value	Test material	Sampling time
78-93-3	METHYL ETHYL KETONE	Methyl ethyl ketone	2 mg/L	urine	End of shift
1330-20-7	XYLENES (technical or commercial grade)	Methylhippuric acids (creatinine)	0.3 g/g	urine	End of shift
100-41-4	ETHYLBENZENE	Sum of mandelic acid and phenylglyoxylic acid (creatinine)	0.15 g/g	urine	End of shift

**Exposure controls**

**Appropriate engineering controls**

Provide adequate ventilation.

If handled uncovered, arrangements with local exhaust ventilation should be used if possible.

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

**Individual protection measures, such as personal protective equipment**
**Eye/face protection**

Eye glasses with side protection (DIN EN 166)

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**Hand protection**

Tested protective gloves must be worn (EN ISO 374):

FKM (fluoro rubber) penetration time (maximum wearing period): 480 min.

NBR (Nitrile rubber) penetration time (maximum wearing period): 480 min.

Thickness of the glove material : > 0,12 mm

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Protective gloves have to be replaced at the first sign of deterioration.

Protect skin by using skin protective cream.

**Skin protection**

Wear anti-static footwear and clothing

**Respiratory protection**

Work in well-ventilated zones or use proper respiratory protection.

gas filtering equipment (EN 141), Filter material/medium: A

**9. Physical and chemical properties**
**Information on basic physical and chemical properties**

Physical state:	Liquid
Color:	black
Odor:	characteristic
Odour threshold:	not determined
Melting point/freezing point:	not determined
Boiling point or initial boiling point and boiling range:	79 - 80,5 °C
Flammability:	Highly flammable liquid and vapor.
Lower explosion limits:	1,8 vol. %
Upper explosion limits:	11,5 vol. %
Flash point:	- 4 °C
Auto-ignition temperature:	> 300 °C
Decomposition temperature:	not determined
pH-Value:	not determined
Viscosity / kinematic:	not determined
Water solubility:	Immiscible
Solubility in other solvents	not determined
Partition coefficient n-octanol/water:	not determined
Vapor pressure:	105 hPa
(at 20 °C)	
Density (at 20 °C):	0,92 - 0,93 g/cm <sup>3</sup>
Relative vapour density:	not determined
Particle characteristics:	not applicable

**Other information**
**Information with regard to physical hazard classes**
**Explosive properties**

The product is: not explosive. In use, may form flammable/explosive vapor-air mixture.

**Self-ignition temperature**

Solid: not applicable

Gas: not applicable

**Oxidizing properties**

not determined

**Other safety characteristics**

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Evaporation rate:	not determined
Solvent content:	72,3 %
Softening point:	not determined
Viscosity / dynamic:	not determined

**Further Information**

No information available.

**10. Stability and reactivity**
**Reactivity**

No further relevant information available.

**Chemical stability**

Stability:	Stable
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No hazardous reaction when handled and stored according to provisions.

**Possibility of hazardous reactions**

Hazardous reactions:	Will not occur
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No known hazardous reactions.

**Conditions to avoid**

No further relevant information available.

**Incompatible materials**

No further relevant information available.

**Hazardous decomposition products**

No known hazardous decomposition products.

**11. Toxicological information**
**Route(s) of Entry**

No information available.

**Information on toxicological effects**
**Acute toxicity**

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

**ATEmix tested**

	Dose	Species	Source
LD50, dermal	150638 mg/kg	Rabbit	
LC50, inhalation (vapor) (4 h)	130 mg/l		

**ATEmix calculated**

ATE (oral) &gt; 5000 mg/kg; ATE (inhalation dust/mist) &gt; 12,5 mg/l

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CAS No	Components					
	Exposure route	Dose	Species	Source	Method	
78-93-3	butanone; ethyl methyl ketone					
	oral	LD50 mg/kg	3300	Rat		
	dermal	LD50 mg/kg	5000	Rabbit		
	inhalation (4 h) vapour	LC50	12 mg/l	Rat		
108-65-6	2-methoxy-1-methylethyl acetate					
	oral	LD50 mg/kg	8500	Rat		
	inhalation (4 h) vapour	LC50	35,7 mg/l	Rat		
28182-81-2	Hexamethylene diisocyanate, oligomers					
	oral	LD50 mg/kg	>5000	Rat		
	inhalation (4 h) vapour	LC50	11 mg/l			
	inhalation dust/mist	ATE	1,5 mg/l			
1333-86-4	Carbon Black					
	oral	LD50 mg/kg	> 15400	Rat	GESTIS	
	dermal	LD50 mg/kg	> 3000	Rabbit	GESTIS	
123-86-4	n-butyl acetate					
	oral	LD50 mg/kg	10760	Rat		
	dermal	LD50 mg/kg	> 14112	Rabbit		
	inhalation vapour	LC50	> 21 mg/l	Rat		
	inhalation (4 h) dust/mist	LC50	>21 mg/l	Rat		
1330-20-7	xylene					
	dermal	ATE mg/kg	1100			
	inhalation vapour	ATE	11 mg/l			
	inhalation dust/mist	ATE	1,5 mg/l			
100-41-4	ethylbenzene					
	oral	LD50 mg/kg	3500	Rat	GESTIS	
	dermal	LD50 mg/kg	15400	Rabbit	GESTIS	
	inhalation (4 h) vapour	LC50	17,2 mg/l	Rat		
	inhalation dust/mist	ATE	1,5 mg/l			
9016-87-9	Diphenylmethanediisocyanate, isomeres and homologues					
	oral	LD50 mg/kg	>10000	Rat		
	dermal	LD50 mg/kg	>9400	Rabbit		
	inhalation vapour	ATE	11 mg/l			
	inhalation dust/mist	ATE	1,5 mg/l			

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#### Irritation and corrosivity

Serious eye damage/eye irritation: Causes serious eye irritation

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

#### Sensitizing effects

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

May cause an allergic skin reaction (Hexamethylene diisocyanate, oligomers; Diphenylmethanediisocyanate, isomeres and homologues)

#### Carcinogenic/mutagenic/toxic effects for reproduction

Suspected of causing cancer (Carbon Black; ethylbenzene; 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.

#### Specific target organ toxicity (STOT) - single exposure

May cause drowsiness or dizziness (butanone; ethyl methyl ketone)

#### Specific target organ toxicity (STOT) - repeated exposure

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

Carcinogenicity (OSHA):

No ingredient of this mixture is listed.

Carcinogenicity (IARC):

Carbon black (CAS 1333-86-4) is listed in group 2B. Xylenes (CAS 1330-20-7) is listed in group 3. Ethylbenzene (CAS 100-41-4) is listed in group 2B.

Polymethylene polyphenyl isocyanate (CAS 9016-87-9) is listed in group 3.

Carcinogenicity (NTP):

No ingredient of this mixture is listed.

#### Aspiration hazard

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

#### Specific effects in experiment on an animal

No information available.

#### Additional information on tests

No information available.

#### Practical experience

No information available.

#### Information on other hazards

##### **Endocrine disrupting properties**

Endocrine disrupting properties: butanone; ethyl methyl ketone.

-

#### Further information

There are no data available on the preparation/mixture itself.

## 12. Ecological information

#### Persistence and degradability

There are no data available on the mixture itself.

#### Bioaccumulative potential

There are no data available on the mixture itself.

#### Mobility in soil

There are no data available on the mixture itself.

#### 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

No information available.

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**Further information**

There are no data available on the mixture itself.

**13. Disposal considerations**
**Waste treatment methods**
**Disposal recommendations**

Dispose of waste according to applicable legislation. Do not mix with other wastes.

**RCRA Hazardous wastes (Resource Conservation and Recovery Act)**

None

**Contaminated packaging**

Remove according to the regulations.

**14. Transport information**
**U.S. DOT 49 CFR 172.101**
**UN number or ID number:**

UN 1866

**Proper shipping name:**

Resin solution

**Transport hazard class(es):**

3

**Packing group:**

II

Hazard label:

3


**Marine transport (IMDG)**
**UN number or ID number:**

UN 1866

**UN proper shipping name:**

RESIN SOLUTION

**Transport hazard class(es):**

3

**Packing group:**

II

Hazard label:

3



Marine pollutant:

no

Special Provisions:

-

Limited quantity:

5 L

Excepted quantity:

E2

EmS:

F-E, S-E

**Air transport (ICAO-TI/IATA-DGR)**
**UN number or ID number:**

UN 1866

**UN proper shipping name:**

RESIN SOLUTION

**Transport hazard class(es):**

3

**Packing group:**

II

Hazard label:

3



Special Provisions:

A3

Limited quantity Passenger:

1 L

Passenger LQ:

Y341

Excepted quantity:

E2

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IATA-packing instructions - Passenger:	353
IATA-max. quantity - Passenger:	5 L
IATA-packing instructions - Cargo:	364
IATA-max. quantity - Cargo:	60 L

#### Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

#### Special precautions for user

No information available.

#### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

not applicable

## 15. Regulatory information

### U.S. Regulations

#### **National Inventory TSCA**

Substance/product listed in the following inventories: TSCA

#### **National regulatory information**

SARA Section 304 CERCLA:

Methyl ethyl ketone (78-93-3): Reportable quantity = 5,000 (2270) lbs. (kg)

Butyl acetate (123-86-4): Reportable quantity = 5,000 (2270) lbs. (kg)

Xylene (mixed isomers) (1330-20-7): Reportable quantity = 100 (45.4) lbs. (kg)

Ethylbenzene (100-41-4): Reportable quantity = 1,000 (454) lbs. (kg)

SARA Section 311/312 Hazards:

Methyl ethyl ketone (78-93-3): Fire hazard, Immediate (acute) health hazard

2-methoxy-1-methylethyl acetate (108-65-6): Fire hazard, Immediate (acute) health hazard

Hexamethylene diisocyanate, oligomers (28182-81-2): Immediate (acute) health hazard

Carbon Black (1333-86-4): Delayed (chronic) health hazard

Butyl acetate (123-86-4): Fire hazard, Immediate (acute) health hazard

Xylene (mixed isomers) (1330-20-7): Fire hazard, Immediate (acute) health hazard

Ethylbenzene (100-41-4): Fire hazard, Delayed (chronic) health hazard, Immediate (acute) health hazard

Polymeric diphenylmethane diisocyanate (9016-87-9): Delayed (chronic) health hazard, Immediate (acute) health hazard

SARA Section 313 Toxic release inventory:

Xylene (mixed isomers) (1330-20-7): De minimis limit = 1.0 %, Reportable threshold = Standard

Ethylbenzene (100-41-4): De minimis limit = 0.1 %, Reportable threshold = Standard

Polymeric diphenylmethane diisocyanate (9016-87-9): De minimis limit = 1.0 %, Reportable threshold = Standard

Clean Air Act Section 112(b):

Methyl ethyl ketone (78-93-3), Xylene (mixed isomers) (1330-20-7), Ethylbenzene (100-41-4)

### State Regulations

#### **Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)**

WARNING: This product can expose you to chemicals including Carbon black (airborne, unbound particles of respirable size) (cancer); Ethylbenzene (cancer), which are known to the State of California to cause cancer, birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

This mixture contains the following substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH: none

## 16. Other information

#### **Hazardous Materials Identification System (HMIS)**

Health:	2
Flammability:	3
Physical Hazard:	0

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#### NFPA Hazard Ratings

Health:	2
Flammability:	3
Reactivity:	0
Unique Hazard:	none



#### Changes

Revision date:	11/13/2025
Revision No:	1,5

This data sheet contains changes from the previous version in section(s): 2,8,12,16.

#### Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route  
 (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
 IMDG: International Maritime Code for Dangerous Goods  
 IATA: International Air Transport Association  
 GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
 EINECS: European Inventory of Existing Commercial Chemical Substances  
 ELINCS: European List of Notified Chemical Substances  
 CAS: Chemical Abstracts Service  
 LC50: Lethal concentration, 50%  
 LD50: Lethal dose, 50%

#### Other data

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

This safety data sheet contains only safety-related information and does not replace product information or product specifications.

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