



SAFETY DATA SHEET
Triple

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name Triple
Product No. 089-30

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

Identified uses Traffic Film Remover
Uses advised against For professional use only. This product is not recommended for any industrial, professional or consumer use other than the Identified uses above.

1.3. Details of the supplier of the safety data sheet

Supplier Autosmart International Ltd
Lynn Lane,
Shenstone, nr Lichfield
Staffordshire. WS14 0DH
England
www.autosmartinternational.com
Tel: +44 (0) 1543 481616 (09:00 - 17:00)
Fax: +44 (0) 1543 481549 (09:00 - 17:00)
info@autosmartinternational.com
Contact Person Mr. Russell Butler

1.4. Emergency telephone number

Mob: +44 (0) 7808 971321 (24hrs)
Tel: +44 (0) 1543 481616 (09:00 - 17:00)
Fax: +44 (0) 1543 481549 (09:00 - 17:00)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification (1999/45/EEC) C;R35.

2.2. Label elements

Contains SODIUM HYDROXIDE
Detergent Labelling:
< 5% NTA (nitrilotriacetic acid) and salts thereof
non-ionic surfactants
amphoteric surfactants
cationic surfactants
Contains COCOALKONIUM CHLORIDE

Labelling



Corrosive

Risk Phrases

R35 Causes severe burns.

Safety Phrases

S24/25 Avoid contact with skin and eyes.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S45 In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

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P14

Contains 3-Lauramidopropyl trimethyl ammonium methyl sulfate. May produce an allergic reaction.

2.3. Other hazards

This product does not contain any PBT or vPvB substances.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**3.2. Mixtures**

SODIUM HYDROXIDE	5-10%
CAS-No.: 1310-73-2	EC No.: 215-185-5
Registration Number: 01-2119457892-27-xxxx	
Classification (EC 1272/2008) Met. Corr. 1 - H290 Skin Corr. 1A - H314	Classification (67/548/EEC) C;R35
Trisodium Nitritotriacetate	2-5%
CAS-No.: 5064-31-3	EC No.: 225-768-6
Registration Number: 01-2119519239-36	
Classification (EC 1272/2008) Acute Tox. 4 - H302 Eye Irrit. 2 - H319 Carc. 2 - H351	Classification (67/548/EEC) Carc. Cat. 3;R40 Xn;R22 Xi;R36
C9-C11 Alcohol ethoxylate (6)	2-5%
CAS-No.: 68439-46-3	EC No.:
Registration Number: 01-2119519239-36	
Classification (EC 1272/2008) Acute Tox. 4 - H302 Eye Dam. 1 - H318	Classification (67/548/EEC) Xn;R22. Xi;R41.
β -Alanine, N-coco alkyl derivs., sodium salts	1-2%
CAS-No.: 68608-68-4	EC No.: 271-795-1
Registration Number: 01-2119519239-36	
Classification (EC 1272/2008) Eye Irrit. 2 - H319	Classification (67/548/EEC) Xi;R36.
3-Lauramidopropyl trimethyl ammonium methyl sulfate	< 1%
CAS-No.: 10595-49-0	EC No.: 234-204-8
Registration Number: 01-2119519239-36	
Classification (EC 1272/2008) Acute Tox. 4 - H302 Eye Irrit. 2 - H319 Skin Sens. 1 - H317	Classification (67/548/EEC) Xn;R22. Xi;R36. R43.
2-BUTOXYETHANOL	< 1%
CAS-No.: 111-76-2	EC No.: 203-905-0
Registration Number: 01-2119519239-36	

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Classification (EC 1272/2008)	Classification (67/548/EEC)
Acute Tox. 4 - H302	Xn;R20/21/22
Acute Tox. 4 - H312	Xi;R36/38
Acute Tox. 4 - H332	
Skin Irrit. 2 - H315	
Eye Irrit. 2 - H319	

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

Inhalation

Move the exposed person to fresh air at once. Rinse nose and mouth with water. Get medical attention if any discomfort continues.

Ingestion

Rinse mouth thoroughly. Drink plenty of water. Get medical attention if any discomfort continues.

Skin contact

Remove affected person from source of contamination. Remove contaminated clothing. Wash the skin immediately with soap and water.

Get medical attention if irritation persists after washing.

Eye contact

Promptly wash eyes with plenty of water while lifting the eye lids. Make sure to remove any contact lenses from the eyes before rinsing.

Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

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

General information

The severity of the symptoms described will vary dependant of the concentration and the length of exposure.

Inhalation.

This is unlikely to occur but symptoms similar to those of ingestion may develop.

Ingestion

May cause chemical burns in mouth and throat. May cause stomach pain or vomiting.

Skin contact

Chemical burns.

Eye contact

Extreme irritation of eyes and mucous membranes, including burning and tearing.

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

No recommendation given, but first aid may still be required in case of accidental exposure, inhalation or ingestion of this chemical. If in doubt, GET MEDICAL ATTENTION PROMPTLY!

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media

This product is not flammable. Use fire-extinguishing media appropriate for surrounding materials.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products

In case of fire, toxic gases (CO, CO₂, NO_x) may be formed.

Unusual Fire & Explosion Hazards

No unusual fire or explosion hazards noted.

Specific hazards

The product is non-combustible. If heated, toxic vapours may be formed.

5.3. Advice for firefighters

Special Fire Fighting Procedures

No specific fire fighting procedure given.

Protective equipment for fire-fighters

Severe corrosive hazard. Wear chemical protection suit. Use air-supplied respirator, gloves and protective goggles.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

For personal protection, see section 8.

6.2. Environmental precautions

Do not discharge onto the ground or into water courses. To prevent release, place container with damaged side up.

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6.3. Methods and material for containment and cleaning up

Wear necessary protective equipment. Stop leak if possible without risk. Wash thoroughly after dealing with a spillage. Absorb in vermiculite, dry sand or earth and place into containers. Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Flush area clean with lots of water. Be aware of potential for surfaces to become slippery. Flush to sewer if local regulations permit.

6.4. Reference to other sections

For personal protection, see section 8. See section 11 for additional information on health hazards.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Avoid spilling, skin and eye contact. Read and follow manufacturer's recommendations. Eye wash facilities and emergency shower must be available when handling this product.

7.2. Conditions for safe storage, including any incompatibilities

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

Storage Class

Corrosive storage.

7.3. Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Name	STD	TWA - 8 Hrs		STEL - 15 Min		Notes
2-BUTOXYETHANOL	WEL	25 ppm	123 mg/m ³	50 ppm	246 mg/m ³	Sk
SODIUM HYDROXIDE	WEL				2 mg/m ³	

WEL = Workplace Exposure Limit.

Sk = Can be absorbed through skin.

8.2. Exposure controls

Protective equipment



Process conditions

Provide eyewash station.

Engineering measures

No specific ventilation requirements noted, except this product must not be used in a confined space without good ventilation.

Respiratory equipment

No specific recommendation made, but respiratory protection must be used if the general level exceeds the recommended occupational exposure limit.

Hand protection

Use protective gloves. Use protective gloves made of: Polyvinyl chloride (PVC). Rubber (natural, latex). Neoprene. Be aware that the liquid may penetrate the gloves. Frequent change is advisable. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

Eye protection

Wear approved chemical safety goggles where eye exposure is reasonably probable.

Other Protection

Provide eyewash station. Wear appropriate clothing to prevent any possibility of skin contact.

Hygiene measures

DO NOT SMOKE IN WORK AREA! Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes wet or contaminated. Use appropriate hand lotion to prevent defatting and cracking of skin. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.

Skin protection

Wear apron or protective clothing in case of splashes.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**9.1. Information on basic physical and chemical properties**

Appearance	Liquid
Colour	Light (or pale). Straw.
Odour	Mild (or faint).
Solubility	Soluble in water. Miscible with water
Initial boiling point and boiling range	~ 100 760 mm Hg
Melting point (°C)	~ 0
Relative density	~ 1.090 (@ 20°C)
Vapour density (air=1)	
Not applicable.	
Vapour pressure	
Not applicable.	
Evaporation rate	
Not applicable.	
pH-Value, Conc. Solution	~13
pH-Value, Diluted Solution	~ 11.5 @ 1%
Viscosity	~1 cSt @ 20 °c
Decomposition temperature (°C)	
Not available.	
Odour Threshold, Lower	
Not available.	
Odour Threshold, Upper	
Not available.	
Flash point	
Not applicable.	
Auto Ignition Temperature (°C)	
Not applicable.	
Flammability Limit - Lower(%)	
Not applicable.	
Flammability Limit - Upper(%)	
Not applicable.	
Partition Coefficient (N-Octanol/Water)	
Not available.	
Oxidising properties	
Does not meet the criteria for oxidising.	
Comments	Information declared as "Not available" or "Not applicable" is not considered to be justified for enabling proper control measures to be taken.

9.2. Other information

Volatile Organic Compound (VOC) 6 g/litre

SECTION 10: STABILITY AND REACTIVITY**10.1. Reactivity**

Reaction with: Acids. Strong oxidising substances.

10.2. Chemical stability

Stable under normal temperature conditions and recommended use.

10.3. Possibility of hazardous reactions

Not applicable.

Hazardous Polymerisation

Will not polymerise.

10.4. Conditions to avoid

The solution is strongly alkaline and reacts with strong acids with heat generation.

10.5. Incompatible materials

Materials To Avoid

Strong oxidising substances. Strong acids.

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10.6. Hazardous decomposition products

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effectsSkin Corrosion/Irritation:

Human Skin Model Test

Scientifically unjustified.

Extreme pH.

≥ 11.5

Classification based on Conventional Method, and In Vitro Approaches - Corrosive or Irritant by measuring pH and Acid/Alkali Reserve.

Corrosive

General information

This product has low toxicity. Only large volumes may have adverse impact on human health.

Inhalation

Not relevant at normal room temperatures. When heated, corrosive vapours may be formed.

Ingestion

Causes burns.

Skin contact

Causes burns.

Eye contact

Causes burns.

Health Warnings

This chemical may cause skin/eye irritation and burns (corrosive). This substance is corrosive. May cause sensitisation by skin contact.

Route of entry

Ingestion.

Target Organs

No specific target organs noted

Medical Symptoms

No specific symptoms noted, but this chemical may still have adverse health impact, either in general or on certain individuals.

Toxicological information on ingredients.**2-BUTOXYETHANOL (CAS: 111-76-2)**

Toxic Dose 1 - LD 50

1480 mg/kg (oral rat)

Toxic Dose 2 - LD 50

220 mg/kg (ipr-rat)

Toxic Conc. - LC 50

450 ppm/4h (inh-rat)

Other Health Effects

ACGIH Carcinogen List.

SODIUM HYDROXIDE (CAS: 1310-73-2)

Toxic Dose 1 - LD 50

40 mg/kg (oral-mouse)

Toxic Dose 2 - LD 50

2000 mg/kg (oral rat)

Other Health Effects

This substance has no evidence of carcinogenic properties.

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Trisodium Nitrotriacetate (CAS: 5064-31-3)

Toxic Dose 1 - LD 50
1000-2000 mg/kg (oral rat)
Toxicological information

Nitrotriacetic acid, trisodium salt (NTA) has caused kidney tumours in rats and mice when administered orally in high concentrations. The tumours are based on organ damage that can only occur when extremely high threshold limit concentrations, as compared with possible human exposure, are exceeded. In view of the potential degree of exposure, there should be no cancer risk to humans.

Carcinogenicity:

Limited evidence of a carcinogenic effect.

C9-C11 Alcohol ethoxylate (6) (CAS: 68439-46-3)

Toxic Dose 1 - LD 50
2000 mg/kg (oral rat)
Toxic Conc. - LC 50
5 mg/l/4h (inh-rat)
Other Health Effects

This substance has no evidence of carcinogenic properties.

β -Alanine, N-coco alkyl derivs., sodium salts (CAS: 68608-68-4)

Other Health Effects

This substance has no evidence of carcinogenic properties.

Acute toxicity:

Acute Toxicity (Oral LD50)
> 5000 mg/kg Rat

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

The product is not expected to be hazardous to the environment. The product is not expected to be hazardous to waste water treatment processes. The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. The product may affect the acidity (pH-factor) in water with risk of harmful effects to aquatic organisms. The product does not contain organically bound halogen. The product does not contain organic complexing agents with a DOC level of degradation of < 80% after 28 days.

Ecological information on ingredients.

SODIUM HYDROXIDE (CAS: 1310-73-2)

Ecotoxicity

The product may affect the acidity (pH-factor) in water with risk of harmful effects to aquatic organisms.

12.1. Toxicity

Acute Toxicity - Fish
Not determined.
Acute Toxicity - Aquatic Invertebrates
Not determined.
Acute Toxicity - Aquatic Plants
Not determined.
Acute Toxicity - Microorganisms
Not determined.
Acute Toxicity - Terrestrial
Not determined.

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Ecological information on ingredients.2-BUTOXYETHANOL (CAS: 111-76-2)

LC 50, 96 Hrs, Fish mg/l
1395-1575
EC 50, 48 Hrs, Daphnia, mg/l
1815
IC 50, 72 Hrs, Algae, mg/l
>500

SODIUM HYDROXIDE (CAS: 1310-73-2)

LC 50, 96 Hrs, Fish mg/l
125
LC50 48 hours ~ 189 mg/l Leuciscus idus (Golden orfe)
EC 50, 48 Hrs, Daphnia, mg/l
40-240
Acute Toxicity - Aquatic Invertebrates
EC50 48 hours > 100 mg/l Daphnia magna

Trisodium Nitrilotriacetate (CAS: 5064-31-3)

LC 50, 96 Hrs, Fish mg/l
114-470
EC 50, 48 Hrs, Daphnia, mg/l
560-1, 000
IC 50, 72 Hrs, Algae, mg/l
180-320

C9-C11 Alcohol ethoxylate (6) (CAS: 68439-46-3)

LC 50, 96 Hrs, Fish mg/l
10
EC 50, 48 Hrs, Daphnia, mg/l
10
IC 50, 72 Hrs, Algae, mg/l
10

 β -Alanine, N-coco alkyl derivs., sodium salts (CAS: 68608-68-4)

EC 50, 48 Hrs, Daphnia, mg/l
97
IC 50, 72 Hrs, Algae, mg/l
31

12.2. Persistence and degradability

Degradability

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer. The product is biodegradable, but it must not be discharged into drains without permission from the authorities.

Ecological information on ingredients.2-BUTOXYETHANOL (CAS: 111-76-2)

Degradability
The product is biodegradable.

SODIUM HYDROXIDE (CAS: 1310-73-2)

Degradability
The product is biodegradable.

Trisodium Nitrilotriacetate (CAS: 5064-31-3)

Degradability
The product is biodegradable.

C9-C11 Alcohol ethoxylate (6) (CAS: 68439-46-3)

Degradability
The product is biodegradable.

 β -Alanine, N-coco alkyl derivs., sodium salts (CAS: 68608-68-4)

Degradability
The product is biodegradable.

12.3. Bioaccumulative potential

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Bioaccumulative potential

The product does not contain any substances expected to be bioaccumulating.

Partition coefficient

Not available.

Ecological information on ingredients.

2-BUTOXYETHANOL (CAS: 111-76-2)

Bioaccumulative potential

The product is not bioaccumulating.

SODIUM HYDROXIDE (CAS: 1310-73-2)

Bioaccumulative potential

The product is not bioaccumulating.

Trisodium Nitritotriacetate (CAS: 5064-31-3)

Bioaccumulative potential

The product does not contain any substances expected to be bioaccumulating.

C9-C11 Alcohol ethoxylate (6) (CAS: 68439-46-3)

Bioaccumulative potential

The product does not contain any substances expected to be bioaccumulating.

β-Alanine, N-coco alkyl derivs., sodium salts (CAS: 68608-68-4)

Bioaccumulative potential

The product is not bioaccumulating.

12.4. Mobility in soil

Mobility:

The product is water soluble and may spread in water systems.

Ecological information on ingredients.

2-BUTOXYETHANOL (CAS: 111-76-2)

Mobility:

The product contains volatile organic compounds (VOC) which will evaporate easily from all surfaces.

SODIUM HYDROXIDE (CAS: 1310-73-2)

Mobility:

The product is soluble in water.

Trisodium Nitritotriacetate (CAS: 5064-31-3)

Mobility:

The product is soluble in water.

C9-C11 Alcohol ethoxylate (6) (CAS: 68439-46-3)

Mobility:

The product is soluble in water.

β-Alanine, N-coco alkyl derivs., sodium salts (CAS: 68608-68-4)

Mobility:

The product is soluble in water.

12.5. Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB substances.

Ecological information on ingredients.

2-BUTOXYETHANOL (CAS: 111-76-2)

This product does not contain any PBT or vPvB substances.

C9-C11 Alcohol ethoxylate (6) (CAS: 68439-46-3)

Not Classified as PBT/vPvB by current EU criteria.

12.6. Other adverse effects

None known.

SECTION 13: DISPOSAL CONSIDERATIONS

General information

The packaging must be empty (drop-free, when inverted).

13.1. Waste treatment methods

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Dispose of waste and residues in accordance with local authority requirements. Small amounts may be flushed with water to sewer. Larger volumes must be sent to approved plant for destruction. Packaging: Recover and reclaim or recycle, if practical.

SECTION 14: TRANSPORT INFORMATION

14.1. UN number

UN No. (ADR/RID/ADN)	1824
UN No. (IMDG)	1824
UN No. (ICAO)	1824

14.2. UN proper shipping name

Proper Shipping Name SODIUM HYDROXIDE SOLUTION

14.3. Transport hazard class(es)

ADR/RID/ADN Class	8
ADR/RID/ADN Class	Class 8: Corrosive substances.
ADR Label No.	8
IMDG Class	8
ICAO Class/Division	8
Transport Labels	



14.4. Packing group

ADR/RID/ADN Packing group	II
IMDG Packing group	II
ICAO Packing group	II

14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant
No.

14.6. Special precautions for user

IMDG Code Segregation Group	18. Alkalis
EMS	F-A, S-B
Emergency Action Code	2W
Hazard No. (ADR)	80
Hazard No. (ADR)	80 Corrosive or slightly corrosive substance.
Tunnel Restriction Code	(E)

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

SECTION 15: REGULATORY INFORMATION

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

Statutory Instruments

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).

Approved Code Of Practice

Safety Data Sheets for Substances and Preparations.

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Guidance Notes

Workplace Exposure Limits EH40.

EU Legislation

Dangerous Preparations Directive 1999/45/EC. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.

National Regulations

Commission Decision 2000/532/EC as amended by Decision 2001/118/EC establishing a list of wastes and hazardous waste pursuant to Council Directive 75/442/EEC on waste and Directive 91/689/EEC on hazardous waste with amendments.

Water hazard classification

WGK 2

15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION

General information

Only trained personnel should use this material. This product has been manufactured under ISO 9001 and ISO 14001 Quality and Environmental Management Systems.

Revision Comments

NOTE: Lines within the margin indicate significant changes from the previous revision.

Revision Date 18/09/2012

Revision 10

Supersedes date 07/02/2011

Risk Phrases In Full

R35	Causes severe burns.
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
R22	Harmful if swallowed.
R36/38	Irritating to eyes and skin.
R36	Irritating to eyes.
R40	Limited evidence of a carcinogenic effect.
R43	May cause sensitisation by skin contact.
R41	Risk of serious damage to eyes.

Hazard Statements In Full

H290	May be corrosive to metals.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
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.
H332	Harmful if inhaled.
H351	Suspected of causing cancer.

Disclaimer

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.