

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

KRONES colclean AD 2007
Article number: 0904231422, 0904231427, 0904231533

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

Cleaning agent

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

Company KIC KRONES Internationale Cooperationsgesellschaft mbH
 Böhmerwaldstraße 5
 93073 Neutraubling / GERMANY
 Phone +49 9401 70-3020
 Fax +49 9401 70-3696
 Homepage www.kic-krones.com
 E-mail kic@kic-krones.com

Address enquiries to

Technical information kic@kic-krones.com

Safety Data Sheet sdb@chemiebuerro.de

1.4 Emergency telephone number

Advisory body +49 (0)89-19240 (24h) (english)

SECTION 2: Hazards identification
2.1 Classification of the substance or mixture

Acute Tox. 4: H302 Harmful if swallowed.
 Skin Irrit. 2: H315 Causes skin irritation.
 Eye Dam. 1: H318 Causes serious eye damage.

2.2 Label elements

The product is required to be labelled in accordance with regulation (EC) No 1272/2008 (CLP).

Hazard pictograms

Signal word

DANGER

Contains:

2-Propylheptanol ethoxylate (5 EO)

Hazard statements

H302 Harmful if swallowed.
 H315 Causes skin irritation.
 H318 Causes serious eye damage.

Precautionary statements

P280 Wear protective gloves / eye protection / face protection.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P310 Immediately call a POISON CENTER / doctor.

Cleaner, 648/2004/CE, contains:

>=30% non-ionic surfactants
 < 5% cationic surfactants

2.3 Other hazards
Human health dangers

If swallowed or in the event of vomiting, risk of product entering the lungs.

Other hazards

Further hazards were not determined with the current level of knowledge.

SECTION 3: Composition / Information on ingredients

Product-type:

The product is a mixture.

Range [%]	Substance
30 - < 40	2-Propylheptanol ethoxylate (5 EO)
	CAS: 160875-66-1
	GHS/CLP: Eye Dam. 1: H318 - Acute Tox. 4: H302
25 - < 30	2-(2-Butoxyethoxy)ethanol
	CAS: 112-34-5, EINECS/ELINCS: 203-961-6, EU-INDEX: 603-096-00-8, Reg-No.: 01-2119475104-44-XXXX
	GHS/CLP: Eye Irrit. 2: H319
5 - < 10	2-Propylheptanol ethoxylate (3,5 EO)
	CAS: 160875-66-1
	GHS/CLP: Eye Irrit. 2: H319
1 - < 3	Alcohols, C12-14 ethoxylated propoxylated
	CAS: 68439-51-0
	GHS/CLP: Aquatic Chronic 3: H412
1 - < 2,5	Dimethyldioctylammonium chloride
	CAS: 5538-94-3, EINECS/ELINCS: 226-901-0
	GHS/CLP: Skin Corr. 1B: H314 - Acute Tox. 4: H302 - Aquatic Acute 1: H400
1 - < 3	Propan-2-ol
	CAS: 67-63-0, EINECS/ELINCS: 200-661-7, EU-INDEX: 603-117-00-0, Reg-No.: 01-2119457558-25-XXXX
	GHS/CLP: Flam. Liq. 2: H225 - Eye Irrit. 2: H319 - STOT SE 3: H336

Comment on component parts

Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.
All chemical substances in this material are included on or exempted from listing on the TSCA Inventory.
For full text of H-statements: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Take off contaminated clothing and wash before reuse.

Inhalation

Ensure supply of fresh air.
In the event of symptoms seek medical treatment.

Skin contact

When in contact with the skin, clean with soap and water.
Consult a doctor if skin irritation persists.

Eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Get medical advice.

Ingestion

Do not induce vomiting.
Rinse out mouth and give plenty of water to drink.
Get medical advice.

4.2 Most important symptoms and effects, both acute and delayed

No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.
If swallowed or in the event of vomiting, risk of product entering the lungs.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

foam, dry powder, water spray jet, carbon dioxide

Extinguishing media that must not be used

Full water jet

5.2 Special hazards arising from the substance or mixture

Risk of formation of toxic pyrolysis products.

Carbon monoxide (CO)

Carbon dioxide (CO₂)

5.3 Advice for firefighters

Do not inhale explosion and/or combustion gases.

Use self-contained breathing apparatus.

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

Ensure adequate ventilation.

Wear suitable protective equipment. For personal protection see SECTION 8.

High risk of slipping due to leakage/spillage of product.

6.2 Environmental precautions

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

6.3 Methods and material for containment and cleaning up

Pick up with absorbent material (e.g. sand, sawdust, universal absorbent, diatomaceous earth).

Dispose of absorbed material in accordance with the regulations.

6.4 Reference to other sections

See SECTION 8+13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Use only in well-ventilated areas.

Avoid contact with eyes and skin. Use personal protective equipment.

Avoid spilling or spraying in enclosed areas.

Do not eat, drink or smoke when using this product.

Take off contaminated clothing and wash before reuse.

Wash hands before breaks and after work.

Use barrier skin cream.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.

Prevent penetration into the ground.

Do not store together with oxidizing agents.

Keep container tightly closed.

Keep container in a well-ventilated place.

Keep in a cool place. Store in a dry place.

7.3 Specific end use(s)

See product use, SECTION 1.2

SECTION 8: Exposure controls / personal protection
8.1 Control parameters
Ingredients with occupational exposure limits to be monitored (GB)

Substance
2-(2-Butoxyethoxy)ethanol
CAS: 112-34-5, EINECS/ELINCS: 203-961-6, EU-INDEX: 603-096-00-8, Reg-No.: 01-2119475104-44-XXXX
Long-term exposure: 10 ppm, 67,5 mg/m ³
Short-term exposure (15-minute): 15 ppm, 101,2 mg/m ³
Propan-2-ol
CAS: 67-63-0, EINECS/ELINCS: 200-661-7, EU-INDEX: 603-117-00-0, Reg-No.: 01-2119457558-25-XXXX
Long-term exposure: 400 ppm, 999 mg/m ³
Short-term exposure (15-minute): 500 ppm, 1250 mg/m ³

Ingredients with occupational exposure limits to be monitored (EU)

Substance / EC LIMIT VALUES
2-(2-Butoxyethoxy)ethanol
CAS: 112-34-5, EINECS/ELINCS: 203-961-6, EU-INDEX: 603-096-00-8, Reg-No.: 01-2119475104-44-XXXX
Eight hours: 10 ppm, 67,5 mg/m ³
Short-term (15-minute): 15 ppm, 101,2 mg/m ³

DNEL

Substance
Propan-2-ol, CAS: 67-63-0
Industrial, dermal, Long-term - systemic effects: 888 mg/kg.
Industrial, inhalative, Long-term - systemic effects: 500 mg/m ³ .
general population, oral, Long-term - systemic effects: 26 mg/kg.
general population, inhalative, Long-term - systemic effects: 89 mg/m ³ .
general population, dermal, Long-term - systemic effects: 319 mg/kg.
2-(2-Butoxyethoxy)ethanol, CAS: 112-34-5
worker, inhalative, Long-term - systemic effects: 67,5 mg/m ³ .
worker, dermal, Long-term - systemic effects: 83 mg/kg bw/day.
worker, inhalative, Long-term - local effects: 67,5 mg/m ³ .
worker, inhalative, Acute - local effects: 101,2 mg/m ³ .
general population, inhalative, Acute - local effects: 60,7 mg/m ³ .
general population, inhalative, Long-term - systemic effects: 40,5 mg/m ³ .
general population, dermal, Long-term - systemic effects: 50 mg/kg bw/day.
general population, inhalative, Long-term - local effects: 40,5 mg/m ³ .
general population, oral, Long-term - systemic effects: 5 mg/kg bw/day.

PNEC

Substance
Propan-2-ol, CAS: 67-63-0
sewage treatment plants (STP), 2251 mg/l.
soil, 28 mg/kg.
sediment (seawater), 552 mg/kg.
sediment (freshwater), 552 mg/kg.
seawater, 140,9 mg/l.
freshwater, 140,9 mg/l.
2-(2-Butoxyethoxy)ethanol, CAS: 112-34-5

freshwater, 1,1 mg/l.
seawater, 0,11 mg/l.
sediment (freshwater), 4,4 mg/kg.
sediment (seaater), 0,44 mg/kg.
sewage treatment plants (STP), 200 mg/l.

8.2 Exposure controls

Additional advice on system design	Ensure adequate ventilation on workstation. Measurement methods for taking workplace measurements must meet the performance requirements of DIN EN 482. For example, recommendations are given in the IFA's list of hazardous substances.
Eye protection	Tightly fitting goggles. (EN 166:2001)
Hand protection	The details concerned are recommendations. Please contact the glove supplier for further information. > 0,11 mm, Nitrile rubber, >480 min (EN 374-1/-2/-3). > 0,11 mm, Butyl rubber, >480 min (EN 374-1/-2/-3).
Skin protection	Protective clothing.
Other	Avoid contact with eyes and skin. Do not breathe vapour/spray. Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to chemicals should be ascertained with the respective supplier.
Respiratory protection	Not required under normal conditions. If ventilation is insufficient, wear respiratory protection. Short term: filter apparatus, filter A. (DIN EN 14387)
Thermal hazards	not applicable
Delimitation and monitoring of the environmental exposition	Comply with applicable environmental regulations limiting discharge to air, water and soil.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	liquid
Color	clear colourless yellowish
Odor	characteristic
Odour threshold	No information available.
pH-value	6,6
pH-value [1%]	No information available.
Boiling point [°C]	No information available.
Flash point [°C]	No information available.
Flammability (solid, gas) [°C]	not applicable
Lower explosion limit	not applicable
Upper explosion limit	not applicable
Oxidising properties	no
Vapour pressure/gas pressure [kPa]	No information available.
Density [g/ml]	ca. 0,98 (20 °C)
Bulk density [kg/m³]	not applicable
Solubility in water	completely miscible
Partition coefficient [n-octanol/water]	No information available.
Viscosity	No information available.
Relative vapour density determined in air	No information available.
Evaporation speed	No information available.
Melting point [°C]	No information available.
Autoignition temperature [°C]	not self-igniting
Decomposition temperature [°C]	No information available.

9.2 Other information

Refractive index: 1,430
Cloudiness: 73 °C (DIN EN 1890 / E)

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reactions known if used as directed.

10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

10.3 Possibility of hazardous reactions

Reactions with strong oxidizing agents.
Reactions with strong acids and alkalies.

10.4 Conditions to avoid

No information available.

10.5 Incompatible materials

See SECTION 10.3.

10.6 Hazardous decomposition products

No dangerous reactions known if used as directed.
In the event of fire: See SECTION 5.

SECTION 11: Toxicological information**11.1 Information on toxicological effects****Acute toxicity**

Product
ATE-mix, oral, ca. 1222 mg/kg.
Substance
2-Propylheptanol ethoxylate (5 EO), CAS: 160875-66-1
LD50, oral, Rat: > 300 - 2000 mg/kg.
ATE, oral, 500 mg/kg.
Propan-2-ol, CAS: 67-63-0
LD50, dermal, Rabbit: > 2000 mg/kg.
LD50, oral, Rat: 4570 mg/kg.
LC50, inhalative, Rat: 30 mg/l 4h.
Alcohols, C12-14 ethoxylated propoxylated, CAS: 68439-51-0
LD50, oral, > 2000 - < 5000 mg/kg (Lit.).
LD50, dermal, > 5000 mg/kg (Lit.).
2-Propylheptanol ethoxylate (3,5 EO), CAS: 160875-66-1
LD50, dermal, > 2000 - 5000 mg/kg.
LC50, inhalative, > 20,1 mg/l.
2-(2-Butoxyethoxy)ethanol, CAS: 112-34-5
LD50, dermal, Rabbit: > 2000 mg/kg (IUCLID).
LD50, oral, Rat: > 2000 mg/kg (IUCLID).
Dimethyldioctylammonium chloride, CAS: 5538-94-3
LD50, oral, Rat: > 300 - 2000 mg/kg.

Serious eye damage/irritation	Risk of serious damage to eyes. Calculation method
Skin corrosion/irritation	Irritant Calculation method
Respiratory or skin sensitisation	Based on the available information, the classification criteria are not fulfilled.
Specific target organ toxicity — single exposure	Based on the available information, the classification criteria are not fulfilled.
Specific target organ toxicity — repeated exposure	Based on the available information, the classification criteria are not fulfilled.
Mutagenicity	Based on the available information, the classification criteria are not fulfilled.
Reproduction toxicity	Based on the available information, the classification criteria are not fulfilled.
Carcinogenicity	Based on the available information, the classification criteria are not fulfilled.
Aspiration hazard	Based on the available information, the classification criteria are not fulfilled.
General remarks	

Toxicological data of complete product are not available.
The toxicity data listed pertaining to the ingredients are intended for those working in the medicinal professions, experts for occupational health and safety and toxicologists. The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

SECTION 12: Ecological information

12.1 Toxicity

Substance
2-Propylheptanol ethoxylate (5 EO), CAS: 160875-66-1
LC50, (96h), Oncorhynchus mykiss: > 10 - 100 mg/l.
EC50, (72h), Algae: > 10 - 100 mg/l.
EC50, (48h), Daphnia magna: > 10 - 100 mg/l.
Propan-2-ol, CAS: 67-63-0
LC50, (48h), Leuciscus idus: > 100 mg/l.
EC50, (72h), Scenedesmus subspicatus: > 100 mg/l.
EC50, (48h), Daphnia magna: > 100 mg/l.
2-Propylheptanol ethoxylate (3,5 EO), CAS: 160875-66-1
LC50, (96h), Oncorhynchus mykiss: > 1 - 10 mg/l.
EC50, (72h), Scenedesmus subspicatus: > 10 - 100 mg/l.
EC50, (48h), Daphnia magna: > 1 - 10 mg/l.
2-(2-Butoxyethoxy)ethanol, CAS: 112-34-5
LC50, (96h), Lepomis macrochirus: 1300 mg/l (IUCLID).
EC50, (48h), Daphnia magna: > 100 mg/l (IUCLID).
Dimethyldioctylammonium chloride, CAS: 5538-94-3
LC50, (96h), Oncorhynchus mykiss: 0,35 mg/l.
LC50, (48h), Lepomis macrochirus: 0,55 mg/l.
EC50, (72h), Algae: > 0,01 - 0,1 mg/l.
EC50, (48h), Daphnia magna: > 0,01 - 0,1 mg/l.

12.2 Persistence and degradability

Behaviour in environment compartments

No information available.

Behaviour in sewage plant

The product can cause foaming in sewage treatment plants.

Biological degradability

The surfactants contained in this preparation 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.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

not applicable

12.6 Other adverse effects

Ecological data of complete product are not available.

Do not discharge product unmonitored into the environment or into the drainage.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

Product

Coordinate disposal with the authorities if necessary.

Waste no. (recommended) 200129*
180106*

Contaminated packaging

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

Waste no. (recommended) 150110*

SECTION 14: Transport information

14.1 UN number

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

14.2 UN proper shipping name

Transport by land according to ADR/RID NO DANGEROUS GOODS

Inland navigation (ADN) NO DANGEROUS GOODS

Marine transport in accordance with IMDG NOT CLASSIFIED AS "DANGEROUS GOODS"

Air transport in accordance with IATA NOT CLASSIFIED AS "DANGEROUS GOODS"

14.3 Transport hazard class(es)

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

14.4 Packing group

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

14.5 Environmental hazards

Transport by land according to ADR/RID no

Inland navigation (ADN) no

Marine transport in accordance with IMDG no

Air transport in accordance with IATA no

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

No information available.

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

EEC-REGULATIONS 1991/689 (2001/118); 2010/75; 2004/42; 648/2004; 1907/2006 (REACH); 1272/2008; 75/324/EEC (2008/47/EC); (EU) 2015/830; (EU) 2016/131; (EU) 517/2014

TRANSPORT-REGULATIONS DOT-Classification, ADR (2017); IMDG-Code (2017, 38. Amdt.); IATA-DGR (2017).

NATIONAL REGULATIONS (GB): EH40/2005 Workplace exposure limits (Second edition, published December 2011). CHIP 3/ CHIP 4

- Observe employment restrictions for people Observe employment restrictions for young people.

- VOC (2010/75/CE) No information available.

15.2 Chemical safety assessment

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

SECTION 16: Other information**16.1 Hazard statements (SECTION 03)**

H336 May cause drowsiness or dizziness.
 H225 Highly flammable liquid and vapour.
 H412 Harmful to aquatic life with long lasting effects.
 H400 Very toxic to aquatic life.
 H314 Causes severe skin burns and eye damage.
 H319 Causes serious eye irritation.
 H302 Harmful if swallowed.
 H318 Causes serious eye damage.

16.2 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
 ATE = acute toxicity estimate
 CAS = Chemical Abstracts Service
 CLP = Classification, Labelling and Packaging
 DMEL = Derived Minimum Effect Level
 DNEL = Derived No Effect Level
 EC50 = Median effective concentration
 ECB = European Chemicals Bureau
 EEC = European Economic Community
 EINECS = European Inventory of Existing Commercial Chemical Substances
 ELINCS = European List of Notified Chemical Substances
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals
 IATA = International Air Transport Association
 IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
 IC50 = Inhibition concentration, 50%
 IMDG = International Maritime Code for Dangerous Goods
 IUCLID = International Uniform Chemical Information Database
 LC50 = Lethal concentration, 50%
 LD50 = Median lethal dose
 LC0 = lethal concentration, 0%
 LOAEL = lowest-observed-adverse-effect level
 MARPOL = International Convention for the Prevention of Marine Pollution from Ships
 NOAEL = No Observed Adverse Effect Level
 NOEC = No Observed Effect Concentration
 PBT = Persistent, Bioaccumulative and Toxic substance
 PNEC = Predicted No-Effect Concentration
 REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
 STP = Sewage Treatment Plant
 TLV@/TWA = Threshold limit value – time-weighted average
 TLV@STEL = Threshold limit value – short-time exposure limit
 VOC = Volatile Organic Compounds
 vPvB = very Persistent and very Bioaccumulative

16.3 Other information

Classification procedure

Acute Tox. 4: H302 Harmful if swallowed. (Calculation method)
 Skin Irrit. 2: H315 Causes skin irritation. (Calculation method)
 Eye Dam. 1: H318 Causes serious eye damage. (Calculation method)

Modified position

SECTION 3 been added: 2-Propylheptanol ethoxylate (5 EO)

SECTION 3 been added: 2-Propylheptanol ethoxylate (3,5 EO)

SECTION 2 been added: 2-Propylheptanol ethoxylate (5 EO)

SECTION 3 been added: 2-(2-Butoxyethoxy)ethanol

SECTION 3 been added: Dimethyldioctylammonium chloride

SECTION 3 been added: Alcohols, C12-14 ethoxylated propoxylated

SECTION 3 been added: Propan-2-ol

SECTION 2 been added: H318 Causes serious eye damage.

SECTION 2 been added: Acute Tox. 4

SECTION 2 deleted: Aquatic Acute 1

SECTION 2 deleted: H400 Very toxic to aquatic life.

SECTION 2 deleted: Aquatic Chronic 2

SECTION 2 deleted: P501 Dispose of contents/container in accordance with local/national regulation.

SECTION 2 deleted: environment

SECTION 2 been added: P310 Immediately call a POISON CENTER / doctor.

SECTION 2 been added: DANGER

SECTION 2 been added: corrosion

SECTION 2 been added: Eye Dam. 1

SECTION 2 deleted: Eye Irrit. 2

SECTION 2 been added: If swallowed or in the event of vomiting, risk of product entering the lungs.

SECTION 2 deleted: H411 Toxic to aquatic life with long lasting effects.

SECTION 2 deleted: P337+P313 If eye irritation persists: Get medical advice / attention.

SECTION 2 deleted: H319 Causes serious eye irritation.

SECTION 2 deleted: P391 Collect spillage.

SECTION 2 deleted: P273 Avoid release to the environment.

SECTION 2 deleted: WARNING

SECTION 2 been added: H302 Harmful if swallowed.

SECTION 4 been added: Get medical advice.

SECTION 7 been added: Avoid spilling or spraying in enclosed areas.

SECTION 7 been added: Avoid contact with eyes and skin. Use personal protective equipment.

SECTION 9 deleted: none

SECTION 9 been added: Refractive index: [x]

SECTION 9 been added: Cloudiness: [x]

SECTION 10 been added: No dangerous reactions known if used as directed.

SECTION 11 been added: Risk of serious damage to eyes.

SECTION 11 deleted: Irritant

SECTION 14 been added: not classified as "Dangerous Goods"

SECTION 14 deleted: Environmentally hazardous substance, liquid, n.o.s. (Alcohols, C12-15, ethoxylated propoxylated)

SECTION 14 been added: not classified as "Dangerous Goods"

SECTION 14 deleted: Environmentally hazardous substance, liquid, n.o.s. (Alcohols, C12-15, ethoxylated propoxylated)

SECTION 14 deleted: Environmentally hazardous substance, liquid, n.o.s. (Alcohols, C12-15, ethoxylated propoxylated)

SECTION 14 been added: no dangerous goods



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