

SAFETY DATA SHEET (EC 1907/2006)

AGRAL GOLD

VA-No.

Version
Revision date
Print Date
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10.08.2022
6/26/2023
1 / 12**1. Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**Trade name : AGRAL GOLD
Chemical Name : Solution of a sulfosuccinic acid di-(isooctyl)ester sodium salt**1.2. Relevant identified uses of the substance or mixture and uses advised against**

Relevant applications identified : Industrial Use

Applications which are not advised : None known.

1.3. Details of the supplier of the safety data sheetCompany : Modify bv
Nassauplein 27
NL 2011 DG Haarlem
The Netherlands
Telephone 1 : +31 (0) 6 55 160 618
Telephone 2 : +31 (0) 6 25 187 822
E-mail : info@modify.nl**1.4. Emergency telephone number**Emergency information : +31 (0) 6 55 160 618 (Phone 1)
+31 (0) 6 25 187 822 (Phone 2)**2. Hazards identification****2.1. Classification of the substance or mixture****Classification according to Regulation (EC) No. 1272/2008 [CLP]**Skin irritation : Category 2 : H315
Serious eye damage : Category 1 : H318**Classification according to EU Directives 67/548/EEC or 1999/45/EC**Irritating to skin.
Risk of serious damage to eyes.**2.2. Label elements**

Constituent decisive for hazardous-substance labeling : Butanedioic acid, sulfo-, 1,4-bis(2-ethylhexyl) ester, sodium salt; CAS-No.: 577-11-7

Symbol(s) :



Signal word : Danger

hazard statement : H315 - Causes skin irritation.
H318 - Causes serious eye damage.Precautionary Statement (Prevention) : P262 - Do not get in eyes, on skin, or on clothing.
P280 - Wear protective gloves and eye/ face protection.Precautionary Statement (Response) : 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.
P332 + P313 - If skin irritation occurs: Get medical advice/attention.

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None known

3. Composition/information on ingredients

Solution of a sulfosuccinic acid di-(isooctyl)ester sodium salt

3.1. Substances

-

3.2. Mixtures**Information on ingredients / Hazardous components as per EU-CLP Regulation (EC) No. 1272/2008**

Chemical Name	CAS-No. EC-No. REACH-No.	Concentration	Classification
Butanedioic acid, sulfo-, 1,4-bis(2-ethylhexyl) ester, sodium salt	577-11-7 209-406-4 01-2119491296-29	>= 74 % - <= 76 %	H315, 2 , Skin Irrit. H318, 1 , Eye Dam.

Information on ingredients / Hazardous components as per Directive 67/548/EC or Directive 1999/45/EC

Chemical Name	CAS-No. EC-No. REACH-No.	Concentration	Classification
Butanedioic acid, sulfo-, 1,4-bis(2-ethylhexyl) ester, sodium salt	577-11-7 209-406-4 01-2119491296-29	>= 74 % - <= 76 %	Xi; R38, R41

Texts of H phrases, see in Chapter 16
See chapter 16 for text of risk phrases**4. First aid measures****4.1. Description of first aid measures**

- General advice : Remove contaminated clothing immediately and store/dispose of safely
- Inhalation : Remove the casualty into fresh air and keep him calm.
In the event of symptoms take medical treatment.
- Skin contact : In case of contact with skin wash off immediately with plenty of water
Consult a doctor if skin irritation persists.
- Eye contact : In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice
- Ingestion : Thoroughly clean the mouth with water
Call for medical advice immediately; show this safety data sheet

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

- Symptoms : The following symptoms may occur:
- gastrointestinal complaints
Depending on the dose inhalation and/or ingestion may cause: headache, inebriation, unconsciousness.

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

When swallowed, stomach should be pumped out under addition of Dimeticon (anti-foam agent).

5. Fire-fighting measures**5.1. Extinguishing media**

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Suitable extinguishing : foam, carbon dioxide, dry powder, water spray.
media

Unsuitable : Full water jet
extinguishing media

5.2. Special hazards arising from the substance or mixture

In case of fires, hazardous combustion gases are formed:

- carbon dioxide, carbon monoxide
- Sulphur oxides

5.3. Advice for firefighters

Do not inhale explosion and/or combustion gases
Use self-contained breathing apparatus and wear protective suit

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.
Cool endangered containers with water spray jet.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

High risk of slipping due to leakage/spillage of product.
Use personal protective equipment.

6.2. Environmental precautions

Do not allow to enter drains or waterways
Do not discharge into the subsoil/soil.

6.3. Methods and material for containment and cleaning up

Take up with absorbent material (eg sand, kieselguhr, universal binder)
Dispose of absorbed material in accordance with the regulations.

6.4. Reference to other sections

For further information on exposure monitoring and disposal see sections 8 and 13.

7. Handling and storage

7.1. Precautions for safe handling

Advice on safe handling : when working with the product vapors/aerosols may be evolved; therefore a local exhaust and ventilation are recommended.

Hygiene measures : Remove soiled or soaked clothing immediately.
Keep away from foodstuffs and beverages.
Wash hands before breaks and after work.
Do not eat, drink or smoke when working.

General protective measures : Do not inhale gases/vapours/aerosols.
Avoid contact with eyes and skin

7.2. Conditions for safe storage, including any incompatibilities

Prevention of fire and explosion

Information : No special measures required.

Storage

Information : none

Further information on storage conditions : Keep container tightly closed in a cool, well-ventilated place

German storage class : 10

7.3. Specific end use(s)

No further recommendations.

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8. Exposure controls/personal protection

8.1. Control parameters

Contains no substances with occupational exposure limit values (Germany).

DNEL : End Use: worker
Routes of exposure: inhalation, long term
Possible health damage: systemic effects
DNEL/DMEL values: 8 h
Dose: 44,1 mg/m³
Values refer to the main component.

End Use: worker
Routes of exposure: dermal, long-term
Possible health damage: systemic effects
DNEL/DMEL values: 8 h
Dose: 31,3 mg/kg
Values refer to the main component.

End Use: consumer
Routes of exposure: inhalation, long term
Possible health damage: systemic effects
DNEL/DMEL values: 24 h
Dose: 13 mg/m³
Values refer to the main component.

End Use: consumer
Routes of exposure: dermal, long-term
Possible health damage: systemic effects
DNEL/DMEL values: 24 h
Dose: 18,8 mg/kg
Values refer to the main component.

End Use: consumer
Routes of exposure: oral, long-term
DNEL/DMEL values: 24 h
Dose: 18,8 mg/kg
Values refer to the main component.

PNEC : Environmental compartment: freshwater
Dose: 0,0066 mg/l
Values refer to the main component.

Environmental compartment: marine water
Dose: 0,00066 mg/l
Values refer to the main component.

Environmental compartment: intermittent release
Dose: 0,066 mg/l
Values refer to the main component.

Environmental compartment: Wastewater treatment plant
Dose: 122 mg/l
Values refer to the main component.

Environmental compartment: Fresh water sediment
Dose: 0,653 mg/kg
Values refer to the main component.

Environmental compartment: marine water sediment
Dose: 0,0653 mg/kg

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Values refer to the main component.

Environmental compartment: soil
Dose: 0,138 mg/kg
Values refer to the main component.

8.2. Exposure controls

Eye protection : tightly fitting safety glasses
Hand protection : PVC gloves

Body Protection : light protective clothing
a protective ointment is recommended.

Respiratory protection : in case of formation of vapours/aerosols:
Respiratory protection mask with combination filter A-P2

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : liquid

Form : Liquid, viscous
Colour : slightly yellowish, clear
Odour : characteristic
Odour Threshold : not measured

pH : 6 - 7,5
10 g/l

Remarks: water

Melting point : Setting point
ca. 5 °C

Boiling point : Boiling temperature
ca. 100 °C

Flash point : > 100 °C
Method: DIN EN 22719 (DIN 51758)

Evaporation rate : not measured

Flammability : no data available

Upper Explosion/Ignition Limit : 12,6 %(V)
Lower explosion limit : 2,6 %(V)

Vapour pressure : not measured

Relative vapour density : not measured
Relative density : no data available

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Solubility	: not measured
Water solubility	: < 10 g/l (20 °C) Remarks: cloudy soluble
Partition coefficient (n-octanol/water)	: not measured
Autoignition temperature	: not measured
Thermal decomposition	: not measured
Viscosity, kinematic	: no data available
Viscosity, dynamic	: 700 - 850 mPa·s (20 °C) Method: Brookfield
Explosive properties	: not measured
Oxidising properties	: not measured

9.2. Other information

Density	: ca. 1,08 g/cm ³ (20 °C) Method: DGF-C-IV-2
Bulk density	: not applicable
Metal corrosion	: not measured
Ignition temperature	: not measured
Other information	: The value given to boiling point, ignition temperature and explosion limits refer to the used solvent component.

10. Stability and reactivity

10.1. Reactivity

see section "Possibility of hazardous reactions"

10.2. Chemical stability

The product is stable under normal conditions.

10.3. Possibility of hazardous reactions

Evolution of explosive gases/vapours.

10.4. Conditions to avoid

Unknown

10.5. Incompatible materials

Unknown

10.6. Hazardous decomposition products

None with proper storage and handling.

11. Toxicological information

11.1. Information on toxicological effects

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Acute toxicity (oral) : The results based on calculation as per chapter 3.1.3.6 Directive 1272/2008/EC are above the classification limits.

LD50

Species: rat(male/female)

Dose: > 2.100 mg/kg

Method: OECD Test Guideline 401

GLP: No

Remarks: Values refer to the main component.

Acute toxicity (inhalation) : no data available

Acute toxicity (dermal) : The results based on calculation as per chapter 3.1.3.6 Directive 1272/2008/EC are above the classification limits.

LD50

Species: Rabbit

Dose: > 10.000 mg/kg

Method: OECD Test Guideline 402

GLP: No

Remarks: Values refer to the main component.

Irritation/corrosion of the skin : no data available

Serious eye damage/ eye irritation : no data available

Respiratory/skin sensitization : no data available

Repeated dose toxicity : no data available

CMR assessment

Carcinogenicity : no data available

Mutagenicity : no data available

Teratogenicity : no data available

Toxicity to reproduction : no data available

Genotoxicity in vitro : bacterial reverse mutation assay (e.g. Ames test)

Metabolic activation: with and without

Result: negative

Method: OECD 471

GLP: Yes

Remarks: Values refer to the main component.

chromosome aberration

Chinese hamster Ovary (CHO)

Metabolic activation: with and without

Result: ambiguous

Method: OECD 473

GLP: Yes

Remarks: Values refer to the main component.

gene mutation

mouse lymphoma L5178Y cells

Metabolic activation: with and without

Result: negative

Method: OECD 476

GLP: Yes

Remarks: Values refer to the main component.

Carcinogenicity : Species: rat (male)
Application Route: Oral, in the feed.

Exposure duration: 2 years

NOAEL: 500 mg/kg

GLP: No

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Application Route: Oral, in the feed.
NOAEL: 500 mg/kg
GLP: NoReprotoxicity/Development/Teratogenicity : Teratogenicity
Method: OECD 414
GLP: No
Species: Rat
Application Route: oral: feed
Dose: 1.0 and 2.0%
NOAEL (No Observed Adverse Effect Level) of parents: NOAEL 1.074 mg/kg bw/day
Developmental Toxicity: NOAEC 1.074 mg/kg bw/day
Values refer to the main component.

Specific Target Organ Toxicity - Single exposure : no data available

Specific Target Organ Toxicity - Repeated exposure : no data available

Aspiration hazard : No Aspiration toxicity classification

Other information : REGULATION (EC) No 1272/2008
Causes skin irritation.
Causes serious eye damage.
Toxicological data refer to the main component.**12. Ecological information****Ecotoxicology Assessment**

Acute aquatic toxicity : no data available

Chronic aquatic toxicity : no data available

12.1. Toxicity

Aquatic toxicity, fish : no data available

Aquatic toxicity, invertebrates : static
Species: Daphnia magna
Exposure duration: 48 h
EC50: 6,6 mg/l
Method: OECD 202
GLP: Yes
Values refer to the main component.Aquatic toxicity, algae / aquatic plants : static test
Species: Scenedesmus subspicatus
growth rate
Exposure duration: 72 h
EC50: 82,5 mg/l
Method: EU Method C.3
GLP: Yes
Remarks: Values refer to the main component.

Toxicity in microorganisms : no data available

chronic toxicity in fish : no data available

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Chronic toxicity in aquatic Invertebrates : no data available

Toxicity in organisms which live in the soil : no data available

Toxicity in terrestrial plants : no data available

Toxicity to Above-Ground Organisms : no data available

m-factor : Butanedioic acid, sulfo-, 1,4-bis(2-ethylhexyl) ester, sodium salt
Acute aquatic toxicity: 1

12.2. Persistence and degradability

Photodegradation : no data available

Biological degradability : aerobic
10 mg/l
Biological degradability: 91,1 %
Exposure duration: 28 d
Result: rapidly degradable
Method: OECD 310
GLP: Yes
Remarks: Values refer to the main component.

Physico-chemical removability : no data available

Biochemical Oxygen Demand (BOD) : no data available

Chemical Oxygen Demand (COD) : no data available

relation of BOD/COD : no data available

Dissolved organic carbon (DOC) : no data available

Adsorbed organic bound halogens (AOX) : no data available

Distribution among environmental compartments : no data available

12.3. Bioaccumulative potential

Bioaccumulation : no data available

12.4. Mobility in soil

Environmental distribution : no data available

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment : No data available

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12.6. Other adverse effects

General Information : Do not allow to enter soil, waterways or waste water canal.

13. Disposal considerations

13.1. Waste treatment methods

Product : In accordance with local authority regulations, take to special waste incineration plant

Contaminated packaging : If empty contaminated containers are recycled or disposed of, the receiver must be informed about possible hazards.

14. Transport information

Not dangerous according to transport regulations.

14.1. UN number: --
14.2. UN proper shipping name: --
14.3. Transport hazard class(es): --
14.4. Packing group: --
14.5. Environmental hazards: --
14.6. Special precautions for user: No

15. Regulatory information

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

National legislation

Technical instructions on Air Quality : 5.2.5 (no class)

Major Accident Hazard Legislation : ---

Water contaminating class (Germany) : hazard to waters
Classification acc. to German law

Risk classification according to BetrSichV (Germany) : ---

Other regulations : Special local regulations must be adhered to when using products containing irritating or corrosive substances.

15.2. Chemical safety assessment

Chemical safety assessment : No chemical safety assessment was carried out for this product.

16. Other information

List of references

Other information : Comply with national laws regulating employee instruction.
Revision date : 26.05.2014

Relevant H phrases from chapter 3

H315 : Causes skin irritation.
H318 : Causes serious eye damage.

Relevant R phrases from chapter 3

R38 : Irritating to skin.

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R41 : Risk of serious damage to eyes.

Changes since the last version are highlighted in the margin. This version replaces all previous versions. This information and all further technical advice is based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.

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**Legend**

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADNR	European agreement concerning the international carriage of dangerous goods by inland waterways (ADN)
ASTM	American Society for Testing and Materials
ATP	Adaptation to Technical Progress
BCF	Bioconcentration factor
BetrSichV	German Ordinance on Industrial Safety and Health
c.c.	closed cup
CAS	Chemical Abstract Services
CESIO	European Committee of Organic Surfactants and their Intermediates
ChemG	German Chemicals Act
CMR	carcinogenic-mutagenic-toxic for reproduction
DIN	German Institute for Standardization
DMEL	Derived minimum effect level
DNEL	Derived no effect level
EINECS	European Inventory of Existing Commercial Chemical Substances
EC50	half maximal effective concentration
GefStoffV	German Ordinance on Hazardous Substances
GGVSEB	German ordinance for road, rail and inland waterway transportation of dangerous goods
GGVSee	German ordinance for sea transportation of dangerous goods
GLP	Good Laboratory Practice
GMO	Genetic Modified Organism
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
ISO	International Organization For Standardization
LOAEL	Lowest observed adverse effect level
LOEL	Lowest observed effect level
NOAEL	No observed adverse effect level
NOEC	no observed effect concentration
NOEL	no observed effect level
o. c.	open cup
OECD	Organisation for Economic Cooperation and Development
OEL	Occupational Exposure Limit
PBT	Persistent, bioaccumulative, toxic
PEC	Predicted effect concentration
PNEC	Predicted no effect concentration
REACH	REACH registration
RID	Convention concerning International Carriage by Rail
STOT	Specific Target Organ Toxicity
SVHC	Substances of Very High Concern
TA	Technical Instructions
TPR	Third Party Representative (Art. 4)
TRGS	Technical Rules for Hazardous Substances
VCI	German chemical industry association
vPvB	very persistent, very bioaccumulative
VOC	volatile organic compounds
VwVwS	German Administrative Regulation on the Classification of Substances Hazardous to Waters into Water Hazard Classes
WGK	Water Hazard Class
WHO	World Health Organization