



Quai Jean-Jaurès - B.P. 45 - 07800 LA VOULTE-SUR-RHÔNE - FRANCE
Tel : 33.4.75.62.04.02 - Fax : 33.4.75.85 32.69 - E-mail : eurecat@eurecat.fr

MSDS for CoMo Sulficat presulfided catalyst

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product label name	Oxides and sulphides of cobalt (1-10%) and molybdenum (5-30%), on crystallised or amorphous silica alumina support
Supplier	EURECAT SA Quai Jean JAURES, BP 45 07 800 La Voulte / Rhône, FRANCE Tel : +33. 4. 75.62.04.02
Emergency telephone	+33. 4. 75.62.04.02 EURECAT SA

2. COMPOSITION/INFORMATION ON INGREDIENTS

This product is to be considered as a preparation in conformance to EC directives

Chemical description	Oxides and sulphides of cobalt (1-10%) and molybdenum (5-30%), on crystallised or amorphous silica alumina support
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Composition / information on ingredients

Number	% w/w	CAS-number	Chemical name
1	Balance	1344-28-1	Aluminum oxide
2	0-6	7631-86-9	Precipitated silica
3	1-10	1317-42-6	Cobalt(II) sulfide
		1307-96-6	Cobalt(II) oxide
4	5-30	1313-27-5	Molybdenum(VI) oxide
5	0-9	1314-56-3	Phosphorus pentoxide

Number	EEC-number	Annex-1 number	Symbol(s)	Risk-phrase(s)
1	2156916		none	None
2	2315454		none	none
3	2152733	027-003-00-X	Xi	R43
	2151546	027-002-00-4	Xn	R42 R43
4	2152047	042-001-00-9	Xn	R36/37 R48/20/22
5	2152361	015-010-00-0	C	R35



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3. HAZARDS IDENTIFICATION

Harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed
Irritating to eyes and respiratory system
May cause sensitization by skin contact

4. FIRST AID MEASURES

Symptoms and effects	Dust may be irritating to the respiratory tract and cause symptoms of bronchitis.
First aid	
General	Always seek medical advice in case of significant exposure.
Inhalation	Move to fresh air, rest, half upright position, loosen clothing. Oxygen or artificial respiration if there is difficulty in breathing. Always seek medical advice in case of significant exposure.
Skin	Wash immediately with soap and water. Remove contaminated clothing/shoes. Launder clothes before re-use.
Eye	Rinse thoroughly with plenty of water. Eyelids should be held away from the eyeball to ensure thorough rinsing. Seek medical advice if irritation develops.
Ingestion	Rinse mouth. Give water to drink. Induce vomiting. Never induce vomiting in unconscious or confused persons. Seek medical advice.
Advice to physician	Symptomatic treatment is advised.

5. FIRE-FIGHTING MEASURES

Extinguishing media	Waterspray/mist, carbon dioxide, powder, foam.
Unsuitable extinguishing media	None known.
Special exposure hazards	Toxic fumes.
Hazardous decomposition/combustion products	SO ₂ , H ₂ S, COS.
Protective equipment	Wear self-contained breathing apparatus.



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6. ACCIDENTAL RELEASE MEASURES

Personal precautions	For personal protection see Section 8
Environmental precautions	Do not flush into public water courses.
Methods for cleaning up	Collect as much as possible in a clean container for (preferable) reuse or disposal.

7. HANDLING AND STORAGE

Handling	Avoid dust generation. Avoid exposure - obtain special instructions before use.
Fire and explosion prevention	Keep away from heat. Keep away from sources of ignition - No smoking.
Storage requirements	Keep container tightly closed and dry

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls

Exposure limits

Name	Exposure limits
Aluminum oxide	OES-TWA 10.0 mg/m ³
Precipitated silica	TLV-TWA 10.0 mg/m ³
Cobalt (II) sulfide Cobalt (II) oxide	OES-TWA 0.1 mg/m ³ (as Co)

Personal protection

Respiratory	In case of dust formation use dust mask
Hand	Wear suitable gloves
Eye	Wear safety goggles
Skin and body	Wear suitable protective clothing



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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	extrudates
Colour	grey (dark)
Odour	faint hydrocarbons
Boiling point/range	not relevant
Melting point/range	not determined
Flash point	> 90°C (Pensky-Martens, closed cup)
Flammability	not determined
Autoignition temperature	not determined
Explosive properties	not determined
Explosion limits	not determined
Oxidizing properties	not determined
Vapour pressure	not relevant
Density	not determined
Bulk density	550-950 kg/m3 (Estimated reactor density)
Solubility in water	Practically insoluble (at pH 4-9)
Solubility in other solvents	not determined
pH value	not determined
Partition coefficient n-octanol/water	not determined
Relative vapour density	not relevant
Viscosity	not applicable

10. STABILITY AND REACTIVITY

Stability	Air / above 55 °C : Generation of heat.
Conditions to avoid	temperature above 55 °C / Air. strong acid (Formation of : H ₂ S)
Materials to avoid	strong oxidising agents
Hazardous decomposition products	SO ₂ , H ₂ S, COS

11. TOXICOLOGICAL INFORMATION

No experimental toxicological data on the preparation as such available.
Material may cause: allergic reaction (Co component)

12. ECOLOGICAL INFORMATION

No experimental ecological data are available on the preparation as such



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13. DISPOSAL CONSIDERATIONS

Product According to local regulations
Contaminated packaging According to local regulations

14. TRANSPORT INFORMATION

Land transport

ADR class	4.2	ADR item number	16b
RID class	4.2	RID item number	16b
Hazard Identification No.		Substance Identification No.	
TREM-Card	CEFIC TEC(R)-42G10	UN number	3190
Proper shipping name		Self-heating solid, inorganic, N.O.S. (Presulphided CoMo Catalyst)	
National regulations			
Other information			

Sea transport

IMO/IMDG code	page 4260	Class	4.2
Packing group	II	UN number	3190
EMS	4.2-04	MFAG	A Subsection 4.2
Marine pollutant	no		
Proper shipping name		Self-heating solid, inorganic, N.O.S. (Presulphided CoMo Catalyst)	
Other information			

Air transport

IATA/ICAO-DGR		UN number	3190
Class	4.2	Packing group	II
Proper shipping name		Self-heating solid, inorganic, N.O.S. (Presulphided CoMo Catalyst)	
Other information			



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15. REGULATORY INFORMATION

Chemical description	Oxides and sulphides of cobalt (1-10%) and molybdenum (5-30%), on crystallised or amorphous silica alumina support
Labelling according to EC directives	
Annex-1 number	none
Symbol(s)	Xn
R(isk) phrase(s)	48/20/22 Harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed 22 Harmful if swallowed 36/37 Irritating to eyes and respiratory system 43 May cause sensitization by skin contact
S(afety) phrase(s)	07 Keep container tightly closed 15 Keep away from heat 22 Do not breathe dust 24/25 Avoid contact with skin and eye
Other information	
Wassergefährdungsklasse (WGK)	Not yet classified

16. OTHER INFORMATION

This information only concerns the above mentioned product and does not need to be valid if used with other product(s) or in any process. The information is to our best present knowledge correct and complete and is given in good faith but without warranty. It remains the user's own responsibility to make sure that the information is appropriate and complete for his special use of this product.

Date	07/06/2001
Revision	4.0