

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

1.1. Product identifier

Chemical type : Substance
 Substance name : Lead sulfochromate yellow
 Trade name : Chrome Yellow A-1011 FM
 EC index no : 082-009-00-X
 EC no : 215-693-7
 CAS No. : 1344-37-2
 IUPAC name : Lead sulfochromate yellow
 Formula : Pb (Cr,S) O₄

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

1.2.1. Relevant identified uses

Use of the substance/preparation : Pigment production including synthesis, filter press, wet grinding, spray drying, calcination and packaging, formulation of pigment, calendering, treatment of articles by dipping and pouring, pelletization and master batching, Spraying of pigment containing products, roller application and brushing including hand mixing, powder coating, pigment in articles

1.2.2. Uses advised against

No data available.

1.3. Details of the supplier of the safety data sheet

DYNAKROM, SAPI DE CV.
 Av. Industrias 930 Pte.
 Col. Bella Vista, Monterrey, N.L. - Mexico
 T +52 81 19 58 58 58

1.4. Emergency telephone number

Emergency number : +52 81 19 58 58 58 (24 hours)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Carc. 1B H350
 Repr. 1A H360
 STOT RE 2 H373
 Aquatic Acute 1 H400
 Aquatic Chronic 1 H410

Full text of H-phrases: see section 16.

Classification according to Directive 67/548/EEC or 1999/45/EC

Carc.Cat.2; R45
 Repr.Cat.1; R61
 Repr.Cat.3; R62
 N; R50/53
 R33

Full text of R-phrases: see section 16.

Adverse physicochemical, human health and environmental effects

No data available.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :  
 GHS08 GHS09

Signal word (CLP) : Danger

Hazard statements (CLP) : H350 - May cause cancer
 H360 - May damage fertility or the unborn child
 H373 - May cause damage to organs through prolonged or repeated exposure
 H410 - Very toxic to aquatic life with long lasting effects

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Precautionary statements (CLP) : P202 - Do not handle until all safety precautions have been read and understood
P260 - Do not breathe dust.
P273 - Avoid release to the environment
P281 - Use personal protective equipment as required
P314 - Get medical advice/attention if you feel unwell
P501 - Dispose of contents/container to Comply with applicable local, national and international regulation.

2.3. Other hazards

No data available.

SECTION 3: Composition/information on ingredients

3.1. Substances

Name	Product identifier	%	Classification according to Directive 67/548/EEC
Lead sulfochromate yellow - C.I. Pigment Yellow 34 - C.I. 77603	(CAS No.) 1344-37-2 (EC no) 215-693-7 (EC index no) 082-009-00-X	80 - 100	Carc.Cat.2; R45 Repr.Cat.1; R61 Repr.Cat.3; R62 R33 N; R50-53
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Lead sulfochromate yellow - C.I. Pigment Yellow 34 - C.I. 77603	(CAS No.) 1344-37-2 (EC no) 215-693-7 (EC index no) 082-009-00-X	80 - 100	Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Carc. 1B, H350 Repr. 1A, H360Df STOT RE 2, H373

Full text of R-, H- and EUH-phrases: see section 16.

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Remove/Take off immediately all contaminated clothing. Avoid any direct contact with the product.

First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. In case of irregular breathing or respiratory arrest provide artificial respiration. Seek medical attention immediately.

First-aid measures after skin contact : Wash skin with plenty of water and soap.

First-aid measures after eye contact : Rinse immediately and plentifully with water, also under the eyelids, for at least 20 minutes.

First-aid measures after ingestion : If swallowed, rinse mouth with water (only if the person is conscious). If the person is fully conscious, make him/her drink water. Never give an unconscious person anything to drink. Do not induce vomiting unless directed to do so by medical personnel. Seek immediate medical advice.

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

No data available.

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

treat symptomatically (decontamination, vital function), administer chelate former. The presence of lead in the body can be detected by determining the amount of this substance in the blood and/or urine.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: : Foam. Dry extinguishing powder.
Unsuitable extinguishing media : Carbon dioxide.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Non flammable. On combustion forms: Lead monoxide. The substances/ group of substances can be released in case of fire.
Explosion hazard : not explosive.
Reactivity : No data available.

5.3. Advice for firefighters

Firefighting instructions : No data available.
Protective equipment for firefighters : Extra personal protection: complete protective clothing including self-contained breathing apparatus.
Other information : the degree of risk is governed by the burning substances and fire condition. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment : Avoid generation of dust.
Emergency procedures : Refer to section 8.

6.1.2. For emergency responders

Emergency procedures : refer to section 8.

6.2. Environmental precautions

Avoid contact with water. Avoid release to the environment. Do not discharge into drains or the environment.

6.3. Methods and material for containment and cleaning up

For containment : Contaminated fire-fighting water must be collected separately.
Methods for cleaning up : Small spillages: Collect up the product and place it in a spare container: - suitably labelled. Large spills: contain using dust suppressant. Avoid raising powdered materials into airborne dust.

6.4. Reference to other sections

Refer to sections 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Carry operations in the open/under local exhaust/ventilation or with respiratory protection. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid generation of dust. Substance/product can lower the ignition temperature of flammable substances.
Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Wash contaminated clothing prior to re-use.

7.2. Conditions for safe storage, including any incompatibilities

No data available.

7.3. Specific end use(s)

No data available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

DN(M)EL- oral – acute - systemic effects - workers : Not applicable
DN(M)EL- dermal - acute - systemic effects - workers : Not applicable
DN(M)EL- inhalation - acute - systemic effects - workers : Not applicable
DN(M)EL- oral - Long-term - systemic effects - workers : Not applicable
DN(M)EL- dermal - Long-term - systemic effects - workers : Not applicable
DN(M)EL - inhalation - Long-term - systemic effects - workers : 0.006 mg/m³
DN(M)EL- oral – acute - systemic effects – general population : Not applicable
DN(M)EL- dermal - acute - systemic effects - general population : Not applicable
DN(M)EL- inhalation - acute - systemic effects - general population : Not applicable
DN(M)EL- oral - Long-term - systemic effects - general population : Consumers must not be exposed to the substance.
DN(M)EL- dermal - Long-term - systemic effects - general population : Consumers must not be exposed to the substance.
DN(M)EL - inhalation - Long-term - systemic effects - general population : Consumers must not be exposed to the substance.
PNEC aqua (freshwater): : 0.1 mg/L
PNEC aqua (marine water): : 0.01 mg/L
PNEC aqua (intermittent releases): : 1 mg/L
PNEC sediment (freshwater): : 5130 (lead) / 148 (chromate)
PNEC sediment (marine water): : 513 (lead) / 14.8 (chromate)
PNEC soil : 1020 (lead) / 29.5 (chromate)

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PNEC STP : 1000mg/L
 PNEC oral : Not applicable since not bioaccumulative

CHROMIUM Compounds		
Austria	TWA (mg/m ³)	2 mg/m ³ (metal Cr, Cr II, Cr III)
Austria	TWA (mg/m ³)	0.05 mg/m ³ respirable -(Cr IV)
Austria	STEL (mg/m ³)	0.2 mg/m ³ 4x15 minutes (respirable) - (Cr IV)
Austria	TWA (mg/m ³)	0.1 mg/m ³ (soluble) - (Cr IV)
Austria	STEL (mg/m ³)	0.4 mg/m ³ 4x15 minutes (soluble) - (Cr IV)
Belgium	TWA (mg/m ³)	0.5 mg/m ³ (metal Cr, Cr II, Cr III)
Belgium	TWA (mg/m ³)	0.05 mg/m ³ (soluble) - (Cr IV)
Belgium	TWA (mg/m ³)	0.01 mg/m ³ (insoluble) - (Cr IV)
Finland	TWA (mg/m ³)	0.5 mg/m ³ (metal Cr, Cr II, Cr III)
Finland	TWA (mg/m ³)	0.05 mg/m ³ (Cr IV)
France	TWA (mg/m ³)	2 mg/m ³ (metal Cr, Cr II, Cr III)
France	TWA (mg/m ³)	0.05 mg/m ³ (Cr IV)
Greece	TWA (mg/m ³)	0.5 mg/m ³ (insoluble/ soluble)
Ireland	TWA (mg/m ³)	0.5 mg/m ³ (Cr II, Cr III)
Ireland	TWA (mg/m ³)	0.05 mg/m ³ (Cr IV)
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m ³)	2 mg/m ³ (metal Cr, Cr II, Cr III)- (insoluble)
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m ³)	0.5 mg/m ³ (metal Cr, Cr II, Cr III)- (soluble)
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m ³)	0.05 mg/m ³ (Cr IV) (soluble)
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m ³)	0.01 mg/m ³ (Cr IV) (insoluble)
Luxembourg	ACGIH TWA (mg/m ³)	2 mg/m ³ (metal Cr, Cr II, Cr III)- (insoluble)
Netherlands	TWA (mg/m ³)	0.025 mg/m ³ (Cr IV)
Netherlands	STEL (mg/m ³)	0.05 mg/m ³ (Cr IV) -15 minutes
Spain	VLA_ED (mg/m ³)	2 mg/m ³ (Cr II, Cr III)
Sweden	TWA (mg/m ³)	0.005 mg/m ³ (Cr IV)
Sweden	STEL (mg/m ³)	0.015 mg/m ³ (Cr IV)
Switzerland	TWA (mg/m ³)	0.5 mg/m ³ (metal Cr, Cr II, Cr III)
Switzerland	TWA (mg/m ³)	0.05 mg/m ³ (Cr IV) inhalable
United Kingdom	TWA (mg/m ³)	0.5 mg/m ³ (Cr II, Cr III)
United Kingdom	TWA (mg/m ³)	0.05 mg/m ³ (Cr IV)
Denmark	TWA (mg/m ³)	0.5 mg/m ³ (Cr II, Cr III)
Denmark	TWA (mg/m ³)	0.005 mg/m ³ (Cr IV)
Norway	TWA (mg/m ³)	0.5 mg/m ³

Laed compounds		
Austria	TWA (mg/m ³)	0.1 mg/m ³ (inhalable)
Austria	STEL (mg/m ³)	0.4 mg/m ³ 4x15 minutes (inhalable)
Belgium	TWA (mg/m ³)	0.15 mg/m ³ (dust)
Finland	TWA (mg/m ³)	0.1 mg/m ³ (inorganic)
France	TWA (mg/m ³)	0.1 mg/m ³ (inorganic)
Germany	TWA (mg/m ³)	0.4 mg/L
Germany	TWA (mg/m ³)	0.3 mg/L (Pb II)
Greece	TWA (mg/m ³)	0.15 mg/m ³
Iceland	TWA (mg/m ³)	0.05 mg/m ³
Ireland	TWA (mg/m ³)	0.15 mg/m ³
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m ³)	0.15 mg/m ³
Luxembourg	ACGIH TWA (mg/m ³)	0.15 mg/m ³
Netherlands	TWA (mg/m ³)	0.15 mg/m ³
Spain	VLA_ED (mg/m ³)	0.15 mg/m ³
Sweden	TWA (mg/m ³)	0.05 mg/m ³ (respirable)
Sweden	TWA (mg/m ³)	0.1 mg/m ³ (inhalable)
Switzerland	TWA (mg/m ³)	0.1 mg/m ³
Switzerland	STEL (mg/m ³)	0.8 mg/m ³ (4x 15 minutes)
United Kingdom	TWA (mg/m ³)	0.15 mg/m ³
Denmark	TWA (mg/m ³)	0.05 mg/m ³
Norway	TWA (mg/m ³)	0.05 mg/m ³

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8.2. Exposure controls

Appropriate engineering controls : Provide local exhaust or general room ventilation to minimize exposure to dust. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Personal protective equipment : Gloves. Safety glasses. Protective clothing.



Hand protection : Chemical resistant protective gloves (EN 374) suitable with prolonged, direct contact. (Recommended: protective index 6, corresponding >48 minutes of permeation time, e.g. nitrile rubber(0.4mm), chloroprene rubber (0.7mm), polyvinylchloride (0.7mm) and other).
Supplementary note: The specifications are based on tests, literature data and information of glove manufacturer or are derived from similar substances by analogy. Due to many conditions such as temperature, it must be consider, that the practical usage of chemical protective glove may be shorter than the permeation time determined through testing. Manufacturer's directions for use should be observed due to great diversity of types.

Eye protection : safety glasses with side-shields. Chemical goggles if dust is generated.

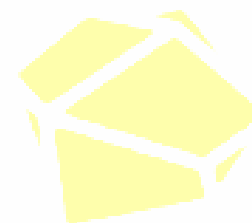
Skin and body protection : Wear suitable protective clothing. Wear long sleeves.

Respiratory protection : Wear respiratory protection when in the presence of vapour, dust, and aerosols. Respiratory protective device with high efficiency filter for solid and liquid particles.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Powder.
Colour	: yellow.
Odour	: odourless.
Odour threshold	: No data available
pH	: No data available
Melting point	: not applicable
Solidification point	: No data available
Boiling point	: not applicable
Flash point	: not applicable
Relat. evapor. rate comp. to butylacetate	: No data available
Flammability (solid, gas)	: Non-flammable.
Explosive limits	: not explosive.
Vapour pressure	: not applicable
Relative vapour density at 20 °C	: No data available
Relative density	: 0.6 g/cm ³ (at 20 °C)
Solubility	: Water: insoluble
Log Pow	: not applicable
Self ignition temperature	: not applicable
Decomposition temperature	: No data available
Viscosity, kinematic	: not applicable
Viscosity, dynamic	: No data available
Explosive properties	: not explosive.
Oxidising properties	: not applicable.



9.2. Other information

No data available.

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None under normal conditions.

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10.4. Conditions to avoid

No data available.

10.5. Incompatible materials

No data available.

10.6. Hazardous decomposition products

No hazardous decomposition products under suitable storage and usage conditions as prescribed.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified (Based on available data, the classification criteria are not met)

Chrome Yellow (1344-37-2)	
LD50 oral rat	> 10000 mg/kg
LD50 dermal	Not tested
LD50 inhalation	Not tested

Skin corrosion/irritation : Not irritating

Serious eye damage/irritation : Not irritating

Respiratory or skin sensitisation : Not tested

Germ cell mutagenicity : Not classified

Carcinogenicity : May cause cancer.

Reproductive toxicity : May damage fertility or the unborn child.

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : May cause damage to organs through prolonged or repeated exposure.

LOAEL (oral,rat,90 days) : 75.4 mg/kg bodyweight/day

NOAEL (oral,rat,90 days) : 288 mg/kg bodyweight/day

Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. Toxicity

Chrome Yellow (1344-37-2)	
LC50 fishes	> 10000 mg/l 96h
EC50 Daphnia	100 mg/l 48h

12.2. Persistence and degradability

Chrome Yellow (1344-37-2)	
Persistence and degradability	not applicable.

12.3. Bioaccumulative potential

Chrome Yellow (1344-37-2)	
Log Pow	not applicable
Bioaccumulative Potential	Low bioaccumulation potential.

12.4. Mobility in soil

Chrome Yellow (1344-37-2)	
Ecology - soil	not applicable.

12.5. Results of PBT and vPvB assessment

Chrome Yellow (1344-37-2)	
Results of PBT assessment	PBT and vPvB criteria do not apply

12.6. Other adverse effects

No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste) : Dispose of contents/container to comply with applicable local, national and international regulations.

Waste disposal recommendations : Dispose of this material and its container to hazardous or special waste collection point.

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SECTION 14: Transport information

In accordance with ADR / RID / ADN / IMDG / ICAO / IATA

14.1. UN number

UN-No. : 2291

14.2. UN proper shipping name

Proper shipping name : LEAD COMPOUND, SOLUBLE, N.O.S.
Transport document description : UN 2291 LEAD COMPOUND, SOLUBLE, N.O.S., 6.1 (N), III, (E)

14.3. Transport hazard class(es)

Class (UN) : 6.1
Hazard labels (UN) : 6.1, N



14.4. Packing group

Packing group (UN) : III

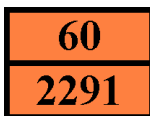
14.5. Environmental hazards

Other information : No supplementary information available.

14.6. Special precautions for user

14.6.1. Overland transport

Hazard identification number (Kemler No.) : 60
Classification code : T5
Orange plates :



Tunnel restriction code : E
Limited quantities (ADR) : LQ09
Excepted quantities (ADR) : E1

14.6.2. Transport by sea

No data available.

14.6.3. Air transport

No data available.

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

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Included/Contains substances included in REACH Candidate List: see section 3.

15.1.2. National regulations

No data available.

15.2. Chemical safety assessment

No data available.

SECTION 16: Other information

Abbreviations and acronyms : ACGIH (American Conference of Government Industrial Hygienists). ASTM - American Society for Testing and Materials . CAS (Chemical Abstracts Service) number. CLP - Classification, Labelling and Packaging. CSR: Chemical Safety Report. EC - European Community. EEC: European Economic Community. GHS - Globally Harmonised System. IARC (International Agency for Research on Cancer). Overland transport (ADR). SDS - Safety Data Sheet.

Full text of R-, H- and EUH-phrases:

Aquatic Acute 1	Hazardous to the aquatic environment - acute hazard Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment - chronic hazard Category 1
Carc. 1B	Carcinogenicity Category 1B

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Repr. 1A	Reproductive toxicity Category 1A
Repr. 1A	Reproductive toxicity Category 1A
STOT RE 2	Specific target organ toxicity (repeated exposure) Category 2
H350	May cause cancer
H360	May damage fertility or the unborn child
H360Df	May damage the unborn child. Suspected of damaging fertility.
H373	May cause damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
R33	Danger of cumulative effects.
R45	May cause cancer.
R50	Very toxic to aquatic organisms.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R53	May cause long-term adverse effects in the aquatic environment.
R61	May cause harm to the unborn child.
R62	Possible risk of impaired fertility.

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

Dynakrom 