# Material Safety Data Sheet Nickelocene

ACC# 08196

# Section 1 - Chemical Product and Company Identification

MSDS Name: Nickelocene

Catalog Numbers: AC415590000, AC415590050

**Synonyms:** Bis(1,5-Cyclopentadienyl)Nickel; Di-Pi-Cyclopentadienylnickel.

Company Identification:

Acros Organics N.V.

One Reagent Lane

Fair Lawn, NJ 07410

For information in North America, call: 800-ACROS-01

For emergencies in the US, call CHEMTREC: 800-424-9300

# Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent	EINECS/ELINCS
1271-28-9	Nickelocene	ca 100	215-039-0

### Section 3 - Hazards Identification

### **EMERGENCY OVERVIEW**

Appearance: orange crystals.

**Warning!** Harmful if swallowed. May cause eye and skin irritation. May cause respiratory and digestive tract irritation. Potential cancer hazard. May cause cancer based on animal studies. Air sensitive. The toxicological properties of this material have not been fully investigated. Possible sensitizer.

Target Organs: Lungs.

#### **Potential Health Effects**

Eye: May cause eye irritation.

**Skin:** May cause skin irritation. May cause skin sensitization, an allergic reaction, which becomes evident upon re-exposure to this material. Causes "nickel itch" which is a dermatitis resulting from sensitization to nickel, which is characterized by skin eruptions, followed by discrete ulcers that may discharge and become crusted, or by eczema.

**Ingestion:** Harmful if swallowed. May cause irritation of the digestive tract.

**Inhalation:** May cause respiratory tract irritation. The toxicological properties of this substance have not been fully investigated. May cause lung damage. In rare instances, exposure may cause sensitization, resulting in inflammation of the mucous membranes and in eczematous equations.

Chronic: Symptoms of overexposure to nickel can cause sensitization, dermatitis, allergic asthma and pneumonitis.

### Section 4 - First Aid Measures

**Eyes:** Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid. **Skin:** Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

**Ingestion:** Get medical aid. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water. Wash mouth out with water.

**Inhalation:** Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid. Do NOT use mouth-to-mouth resuscitation. If breathing has ceased apply artificial respiration using oxygen and a suitable mechanical device such as a bag and a mask.

Notes to Physician: Treat symptomatically and supportively.

# Section 5 - Fire Fighting Measures

**General Information:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Use extinguishing media appropriate to the surrounding fire. Substance is noncombustible.

**Extinguishing Media:** Substance is noncombustible; use agent most appropriate to extinguish surrounding fire. Use water spray, dry chemical, carbon dioxide, or appropriate foam.

Flash Point: Not applicable.

**Autoignition Temperature:** Not applicable. **Explosion Limits, Lower:** Not available.

Upper: Not available.

NFPA Rating: (estimated) Health: 2; Flammability: 0; Instability: 0

## Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Provide ventilation. Place under an inert atmosphere.

# Section 7 - Handling and Storage

Handling: Wash thoroughly after handling. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation. Handle under an inert atmosphere. Store protected from air.

Storage: Keep under a nitrogen blanket. Store in a cool, dry, well-ventilated area away from incompatible substances. Do not expose to air. Store under an inert atmosphere.

### Section 8 - Exposure Controls, Personal Protection

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

**Exposure Limits** 

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Nickelocene		0.015 mg/m3 TWA (as Ni excluding Nickel carbonyl) (listed under Nickel compounds).10 mg/m3 IDLH (as Ni except Nickel carbonyl) (listed under Nickel compounds).	1 mg/m3 TWA (as Ni) (listed under

OSHA Vacated PELs: Nickelocene: No OSHA Vacated PELs are listed for this chemical.

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

**Skin:** Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

# Section 9 - Physical and Chemical Properties

Physical State: Crystals

Appearance: black - green - orange

Odor: none reported pH: Not available.

Vapor Pressure: Not available. Vapor Density: Not available. Evaporation Rate: Not available. Viscosity: Not available. Boiling Point: Not available.

Freezing/Melting Point:171 - 173 deg C **Decomposition Temperature:**Not available.

Solubility: Insoluble.

Specific Gravity/Density:Not available.

Molecular Formula:C10H10Ni Molecular Weight: 188.76

# Section 10 - Stability and Reactivity

Chemical Stability: Stable at room temperature in closed containers under normal storage and handling conditions.

Conditions to Avoid: Incompatible materials, dust generation, exposure to air, excess heat.

**Incompatibilities with Other Materials:** Air, strong oxidizing agents.

Hazardous Decomposition Products: Carbon monoxide, irritating and toxic fumes and gases, carbon dioxide, nickel oxide.

Hazardous Polymerization: Has not been reported

## Section 11 - Toxicological Information

RTECS#:

CAS# 1271-28-9: OR6500000

LD50/LC50:

CAS# 1271-28-9:

Oral, mouse: LD50 = 600 mg/kg; Oral, rat: LD50 = 490 mg/kg;

Carcinogenicity:

CAS# 1271-28-9:

· ACGIH: Not listed.

California: carcinogen, initial date 10/1/89

NTP: Known carcinogen (listed as Nickel compounds).
 IARC: Group 1 carcinogen (listed as Nickel compounds).

**Epidemiology:** No information foundAn increased incidence of lung and nasal cavity cancers has been noted among women in nickel smelters and refineries. Epidemiological studies have shown an increased incidence of cancers among nickel refinery workers.

Teratogenicity: Teratogenic effects have occurred in experimental animals.

Reproductive Effects: No information found Mutagenicity: No information found Neurotoxicity: No information found

Other Studies:

# Section 12 - Ecological Information

No information available.

## Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed. RCRA U-Series: None listed.

# Section 14 - Transport Information

	US DOT	Canada TDG
Shipping Name:	Not regulated as a hazardous material	No information available.
Hazard Class:		
UN Number:		
Packing Group:		

# Section 15 - Regulatory Information

#### **US FEDERAL**

#### TSCA

CAS# 1271-28-9 is listed on the TSCA inventory.

## **Health & Safety Reporting List**

None of the chemicals are on the Health & Safety Reporting List.

## **Chemical Test Rules**

None of the chemicals in this product are under a Chemical Test Rule.

### Section 12b

None of the chemicals are listed under TSCA Section 12b.

## **TSCA Significant New Use Rule**

None of the chemicals in this material have a SNUR under TSCA.

# CERCLA Hazardous Substances and corresponding RQs

None of the chemicals in this material have an RQ.

### SARA Section 302 Extremely Hazardous Substances

None of the chemicals in this product have a TPQ.

#### Section 313

This material contains Nickelocene (listed as Nickel compounds), ca 100%, (CAS# 1271-28-9) which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373.

#### Clean Air Act:

CAS# 1271-28-9 (listed as Nickel compounds) is listed as a hazardous a ir pollutant (HAP).

This material does not contain any Class 1 Ozone depletors.

This material does not contain any Class 2 Ozone depletors.

#### **Clean Water Act:**

None of the chemicals in this product are listed as Hazardous Substances under the CWA.

None of the chemicals in this product are listed as Priority Pollutants under the CWA. CAS# 1271-28-9 is listed as a Toxic Pollutant under the Clean Water Act.

# OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

### STATE

CAS# 1271-28-9 can be found on the following state right to know lists: California, (listed as Nickel compounds), New Jersey, Pennsylvania, Minnesota, (listed as Nickel soluble compounds), Massachusetts.

#### California Prop 65

### The following statement(s) is(are) made in order to comply with the California Safe Drinking Water Act:

WARNING: This product contains Nickelocene, a chemical known to the state of California to cause cancer. California No Significant Risk Level: None of the chemicals in this product are listed.

## European/International Regulations

**European Labeling in Accordance with EC Directives** 

**Hazard Symbols:** 

XN

### **Risk Phrases:**

R 20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

R 42/43 May cause sensitization by inhalation and skin contact.

#### **Safety Phrases:**

S 22 Do not breathe dust.

S 24 Avoid contact with skin.

S 36/37 Wear suitable protective clothing and gloves.

S 37 Wear suitable gloves.

S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S 28A After contact with skin, wash immediately with plenty of water

WGK (Water Danger/Protection)

CAS# 1271-28-9: No information available.

Canada - DSL/NDSL

CAS# 1271-28-9 is listed on Canada's NDSL List.

Canada - WHMIS

This product has a WHMIS classification of D1B, D2A.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

**Canadian Ingredient Disclosure List** 

CAS# 1271-28-9 is listed on the Canadian Ingredient Disclosure List.

### Section 16 - Additional Information

**MSDS Creation Date:** 6/09/1999 **Revision #3 Date:** 10/03/2005

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Fisher be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Fisher has been advised of the possibility of such damages.