



Printing Date 01/16/2017

Revision Number 1

Revision Date 01/16/2017

### 1 Identification

- · Product identifier
- · Trade name: AS 203 Nickel Anti Seize
- · Relevant identified uses of the substance or mixture. Additive
- · Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

Adhesive Systems, Inc.

A Division of Royal Adhesives & Sealants, LLC

9411 Corsair Road Frankfort, Illinois 60423 Phone Number: 800-552-0299

· Information department: Environment protection department.

· Emergency telephone number:

ChemTrec: Day or Night within USA and Canada: 1-800-424-9300. Outside USA and Canada: +1 703-527-3887 (collect calls accepted)

### 2 Hazard(s) identification

· Classification of the substance or mixture



GHS08 Health hazard

Carc. 2 H351 Suspected of causing cancer.

STOT SE 1 H370 Causes damage to organs.



GHS07

Skin Sens. 1 H317 May cause an allergic skin reaction.

- · Label elements
- · GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms





GHS07

GHS08

- · Signal word Danger
- · Hazard statements

May cause an allergic skin reaction.

Suspected of causing cancer.

Causes damage to organs.

· Precautionary statements

Do not breathe dust/fume/gas/mist/vapors/spray.

Wear protective gloves/protective clothing/eye protection/face protection.

Wash thoroughly after handling.

(Contd. on page 2)

Printing Date 01/16/2017 Revision Number 1 Revision Date 01/16/2017

Trade name: AS 203 Nickel Anti Seize

(Contd. of page 1)

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

Contaminated work clothing must not be allowed out of the workplace.

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Specific treatment (see on this label).

Wash contaminated clothing before reuse.

IF exposed or concerned: Get medical advice/attention.

If skin irritation or rash occurs: Get medical advice/attention.

IF ON SKIN: Wash with plenty of water.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

- · Classification system:
- · NFPA ratings (scale 0 4)



Health = 1 Fire = 1Reactivity = 0

· HMIS-ratings (scale 0 - 4)



1 Health = 1

1 Fire = 1

PHYSICAL HAZARD  $\boxed{0}$  Physical Hazard = 0

- · Other hazards
- · Results of PBT and vPvB assessment
- · **PBT**: Not applicable.
- · vPvB: Not applicable.

### 3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- · Description: Mixture

· Hazardous	components:	
7440-02-0	nickel	10-25%
7782-42-5	Graphite	5-20%
7429-90-5	aluminium powder (stabilised)	≤2.5%

### 4 First-aid measures

- · Description of first aid measures
- · After inhalation: Overexposure, remove to fresh air and seek medical attention.
- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: Seek medical treatment.
- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed

No further relevant information available.

USA

Printing Date 01/16/2017 Revision Number 1 Revision Date 01/16/2017

Trade name: AS 203 Nickel Anti Seize

(Contd. of page 2)

#### 5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray.

*Use fire fighting measures that suit the environment.* 

- Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters

Firefighters use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

· Protective equipment: Protective clothing and respiratory protective device.

### 6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

- · Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- · Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose of contaminated material as waste in accordance with federal state and local regulations.

Ensure adequate ventilation.

Clean the affected area carefully; suitable cleaners are:

Warm water and cleansing agent

· Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

· Protective Action Criteria for Chemicals

· PAC-1:	
7440-02-0 nickel	4.5 mg/m3
• PAC-2:	
7440-02-0 nickel	50 mg/m3
• PAC-3:	
7440-02-0 nickel	99 mg/m3

## 7 Handling and storage

- · Handling:
- · Precautions for safe handling

Open and handle receptacle with care.

*Ensure good ventilation/exhaustion at the workplace.* 

Prevent formation of aerosols.

- · Information about protection against explosions and fires: Keep container closed when not in use.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: Store in a cool location away from direct heat.
- Information about storage in one common storage facility: Store away from oxidizing agents.
- Further information about storage conditions: Keep receptacle tightly sealed.

(Contd. on page 4)

Printing Date 01/16/2017 Revision Number 1 Revision Date 01/16/2017

Trade name: AS 203 Nickel Anti Seize

· Specific end use(s) No further relevant information available.

(Contd. of page 3)

### 8 Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · Control parameters
- · Components with limit values that require monitoring at the workplace:

The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

#### 7440-02-0 nickel

PEL Long-term value: 1 mg/m³
REL Long-term value: 0.015 mg/m³
as Ni; See Pocket Guide App. A

TLV Long-term value: 1.5\* mg/m³ elemental, \*inhalable fraction

- · Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal protective equipment (see listings below)
- · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

· Breathing equipment:

Use approved respiratory protection equipment when airborne exposure is excessive. Consult the respirator manufacturer to determine the appropriate type of equipment for a given application. Observe respirator use limitations specified by the manufacturer.

· Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

· Material of gloves

Nitrile rubber, NBR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- · Eve protection: Safety glasses with side shields.
- · **Body protection:** Protective work clothing

#### 9 Physical and chemical properties

- · Information on basic physical and chemical properties
- · General Information
- · Appearance:

Form: Pasty

(Contd. on page 5)

Printing Date 01/16/2017 Revision Number 1 Revision Date 01/16/2017

Trade name: AS 203 Nickel Anti Seize

		(Contd. of page
Color:	Gray	
Odor:	Characteristic	
Odor threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition		
Melting point:	Undetermined.	
Boiling.point: Flash point:	>177 °C (>351 °F)	
Flammability (solid, gaseous):	Not applicable.	
Ignition temperature:		
Decomposition temperature:	Not determined.	
Auto igniting:	Product is not selfigniting.	
Danger of explosion:	Product does not present an explosion hazard.	
Flammable limits:		
Lower:	Not determined	
Upper:	Not determined	
Vapor pressure:	Not determined.	
Specific gravity at 20 °C (68 °F):	1.2 g/cm³ (10.014 lbs/gal)	
Relative density	Not determined.	
Vapor density	Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with		
Water:	Not miscible or difficult to mix.	
Partition coefficient (n-octanol/wate	e <b>r</b> ): Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent content:		
Organic solvents:	0.0 %	
Solids content:	Not available	
Other information	VOC content < 0.5%	

# 10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid Exposure to high temperatures.
- · Incompatible materials:

Reacts with oxidizing agents.

Reacts with acids.

· Hazardous decomposition products:

Carbon monoxide and carbon dioxide

Hydrocarbons

(Contd. on page 6)

Printing Date 01/16/2017 Revision Number 1 Revision Date 01/16/2017

Trade name: AS 203 Nickel Anti Seize

Dense smoke

(Contd. of page 5)

# 11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- · Primary irritant effect:
- · on the skin: May irritate the skin.
- · on the eye: May irritate the eye.
- · Sensitization: Skin Contact Sensitization possible through skin contact.
- · Additional toxicological information:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)	
7440-02-0 nickel	2 <i>B</i>
· NTP (National Toxicology Program)	
7440-02-0 nickel	R
· OSHA-Ca (Occupational Safety & Health Administration)	

12 Ecological information

None of the ingredients is listed.

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes: At present there are no ecotoxicological assessments.
- · Results of PBT and vPvB assessment
- · **PBT**: Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation: Must be specially treated adhering to official regulations.
- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

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(Contd. on page 7)

Printing Date 01/16/2017 Revision Number 1 Revision Date 01/16/2017

Trade name: AS 203 Nickel Anti Seize

(Contd. of page 6)

4 Transport information	
· UN-Number · DOT, ADN, IMDG, IATA	not regulated
· UN proper shipping name · DOT, ADN, IMDG, IATA	not regulated
· Transport hazard class(es)	
· DOT, ADN, IMDG, IATA · Class	not regulated
· Packing group · DOT, IMDG, IATA	not regulated
· Environmental hazards:	Not applicable.
· Special precautions for user	Not applicable.
· Transport in bulk according to Annex MARPOL73/78 and the IBC Code	II of Not applicable.
· UN ''Model Regulation'':	not regulated

# 15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Sara
- · Section 355 (extremely hazardous substances):

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

7440-02-0 nickel

7429-90-5 aluminium powder (stabilised)

· TSCA (Toxic Substances Control Act):

All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements.

- · Proposition 65
- · Chemicals known to cause cancer:

7440-02-0 nickel

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· (DSL) Canada Dosmestic Substance List

All components of this product are on the DSL(Canada Domestic Substance list) or are exempt from DSL requirements.

· New Jersey	Right-to-Know List:
7440-02-0	nickel
7782-42-5	Graphite

(Contd. on page 8)

Printing Date 01/16/2017 Revision Number 1 Revision Date 01/16/2017

Trade name: AS 203 Nickel Anti Seize

	(Contd. of pag
New Jersey Special Hazardous Substance List:	
7440-02-0 nickel	(
Pennsylvania Right-to-Know List:	
7440-02-0 nickel	
7782-42-5 Graphite	
Pennsylvania Special Hazardous Substance List:	
7440-02-0 nickel	i
Cancerogenity categories	
EPA (Environmental Protection Agency)	
None of the ingredients is listed.	
TLV (Threshold Limit Value established by ACGIH)	
7440-02-0 nickel	1
7429-90-5 aluminium powder (stabilised)	1
MAK (German Maximum Workplace Concentration)	
7440-02-0 nickel	
NIOSH-Ca (National Institute for Occupational Safety and Health)	
7440-02-0 nickel	

- · National regulations:
- · Water hazard class: Water hazard class 2 (Self-assessment): hazardous for water.
- · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

### 16 Other information

Although the information and recommendations set forth in this SDS are presented in good faith and are believed to be correct as of the date of this SDS, Royal Adhesives & Sealants makes no representations as to the completeness or accuracy thereof. Information is supplied on the condition that the persons receiving and using it will make their own determination as to the suitability for their purpose prior to use. In no event will Royal Adhesives & Sealants or any affiliate thereof be responsible for damages of any nature whatsoever resulting from the use or reliance on the information set forth in the SDS.

- · Department issuing SDS: Environment protection department.
- · Creation Date: 01/16/2017
- · Date of preparation / last revision 01/16/2017 / -
- · Abbreviations and acronyms:

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Skin Sens. 1: Skin sensitisation - Category 1

Carc. 2: Carcinogenicity – Category 2

STOT SE 1: Specific target organ toxicity (single exposure) – Category 1

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