

Version SDS Number: Date of last issue: 2021/02/09 Revision Date: Date of first issue: 2020/05/05 3.5 2021/02/11 100000015774

SECTION 1. IDENTIFICATION

Substance name : Ad26.COV2.S Drug Product

Also known as Ad26COVS1

Reference number JNJ-78436735-AAA

Manufacturer or supplier's details

Company name of supplier Janssen Pharmaceuticals, Inc.

Address 1125 Trenton-Harbourton Rd

Titusville NJ 08560

US

Telephone (609) 730-2000

E-mail address Responsi-

ble/issuing person

: SDSJanssen@its.jnj.com

Emergency telephone

number

CHEMTREC US: 1-800-424-9300

CHEMTREC International: +1 703-527-3887

Recommended use of the chemical and restrictions on use

Recommended use Pharmaceutical, intended for medical use

Recombinant, replication-incompetent human adenoviral vec-

tor type 26 (Ad26) vaccine.

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a hazardous substance or mixture.

GHS label elements

Not a hazardous substance or mixture.

Other hazards

Avoid direct contact and significant aerosol/dust exposure which has the remote possibilities of eliciting an allergic response. May cause sensitization in susceptible persons. Health Hazards, Risk Group 2

Risk Group 2 (RG2) agents are associated with human disease which is rarely serious and for which preventive or therapeutic interventions are often available.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture Mixture

Chemical nature Liquid

Substance name Ad26.COV2.S Drug Product

1/11

Medical Information and Services Page: 3 of 13 Inquiry #: 02046529 Print Date: March 19, 2021



Version SDS Number: Date of last issue: 2021/02/09 Revision Date: Date of first issue: 2020/05/05 3.5 2021/02/11 100000015774

Hazardous components

Chemical name	CAS-No.	Concentration (% w/w)
ethanol	64-17-5	>= 0.1 - < 1

Actual concentration is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

General advice This material is being evaluated for use as a biological agent

or in the manufacturing of a biological agent.

If accidently injected (needle prick):

Wash off immediately with plenty of water.

Consult a physician.

If inhaled If breathed in, move person into fresh air.

Consult a physician.

In case of skin contact Take off contaminated clothing and shoes immediately.

Immediately wash with water a 10% povidone solution (Beta-

dine) ~20 minutes. Consult a physician.

Wash contaminated clothing before re-use.

Rinse immediately with plenty of water, also under the eyelids, In case of eye contact

for at least 15 minutes. Remove contact lenses. Consult a physician.

If swallowed If swallowed, rinse mouth with water (only if the person is con-

scious).

Call a physician immediately.

Most important symptoms and effects, both acute and

delayed

No information available.

Notes to physician Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

Use extinguishing measures that are appropriate to local cir-Suitable extinguishing media :

cumstances and the surrounding environment.

Specific hazards during fire-

fighting

The product is not flammable.

Further information No information available.

for firefighters

Special protective equipment : In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

2/11

Medical Information and Services Page: 4 of 13

Inquiry #: 02046529 Print Date: March 19, 2021



Personal precautions, protective equipment and emergency procedures

Special considerations for Biological Risk from any particular micro-organism is based on several factors including amount of infectious material present, infectious dose, mode of transmission, seriousness of illness, susceptibility of the host and

availability of vaccines or drugs.

In the event of an accidental release the emergency response team must respond based on a risk assessment and use per-

sonal protective equipment as appropriate.

Avoid direct contact with broken glass, plastic and other

sharps.

Avoid splashes and spray formation. Evacuate personnel to safe areas.

Avoid direct contact and significant aerosol exposure.

Environmental precautions : Should not be released into the environment.

Do not flush into surface water or sanitary sewer system.

Methods and materials for containment and cleaning up

Allow aerosols to settle and cover the spill with absorbent. Apply for disinfection of surfaces and spills, 0.1 M resp. 0.25M

NaOH or 1% Virkon S for at least 15 min.

Alternatively, use appropriate validated disinfectants and methods against adenoviral vectors according to local legisla-

tion.

SECTION 7. HANDLING AND STORAGE

Advice on protection against :

fire and explosion

The product is not flammable.

Advice on safe handling : Avoid splashes.

Avoid formation of aerosol.

To avoid thermal decomposition, do not overheat. Avoid inhalation, ingestion and contact with skin and eyes.

Use personal protective equipment as required.

Conditions for safe storage

To maintain product quality, do not store in heat or direct sun-

light.

Store in original container.

Keep containers tightly closed in a dry, cool and well-

ventilated place. Keep away from heat. Keep locked up. Keep frozen.

Recommended storage tem-

perature

-13 - 5 °F / -25 - -15 °C

Further information on stor-

age stability

Drug product short-term storage: -13 - 5 °F / -25 - -15 °C

Drug product long-term storage: -121 - -67 °F / -85 - -55 °C

Drug product storage at local site prior to use: 36 - 46 °F / 2 -

8 °C

Print Date: March 19, 2021



SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
ethanol	64-17-5	TWA	1,000 ppm	ACGIH
		STEL	1,000 ppm	ACGIH
		TWA	1,000 ppm 1,900 mg/m3	NIOSH REL
		TWA	1,000 ppm 1,900 mg/m3	OSHA Z-1
		TWA	1,000 ppm 1,900 mg/m3	OSHA P0

Engineering measures : All open manipulations and process (and process related)

activities must be carried out in physical containment device

or ventilated enclosure (e.g. Biosafety cabinet).

Personal protective equipment

Respiratory protection : Engineering controls should always be the primary method of

controlling exposures.

If respiratory protective equipment is needed for certain activities, the type as well as the corresponding protection factor will depend upon the risk assessment and air concentrations, hazards, physical and warning properties of substances pre-

sent.

Hand protection

Remarks : Disposable gloves

Eye protection : Safety glasses

Skin and body protection : Lab coat

Protective measures : The type of protective equipment must be selected based on

the Environmental Health and Safety risk assessment. Consult a Environmental Health and Safety expert if necessary.

Hygiene measures : Specific safety testing of the Product confirmed the absence

of replication competent adenovirus (RCA) (< 1 RCA/3E10 vp) and therefore allows handling under BSL-1/contained use level 1 conditions or best medical practices for vaccine administration and related procedures depending on local legis-

Page: 6 of 13

Print Date: March 19, 2021

lation or requirements.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : frozen, liquid

Colour : clear, to, opalescent

4/11



pH : 6.5

SECTION 10. STABILITY AND REACTIVITY

Reactivity : None reasonably foreseeable.

Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous reac-

tions

No dangerous reaction known under conditions of normal use.

Conditions to avoid : To avoid thermal decomposition, do not overheat.

Heat, flames and sparks.

Exposure to light.

Incompatible materials : None known.

Hazardous decomposition

products

None known.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product:

Acute oral toxicity : Acute toxicity estimate: > 5,000 mg/kg

Method: Calculation method

Acute toxicity (other routes of :

administration)

Remarks: Acute toxicity studies are generally not conducted

for vaccines.

Components:

ethanol:

Acute oral toxicity : LD50 (Rat): 7,060 mg/kg

Symptoms: nausea

Assessment: The substance or mixture has no acute oral tox-

icity

Acute inhalation toxicity : LC50 (Rat): 2,000 mg/l

Exposure time: 4 h
Test atmosphere: vapour

Assessment: The substance or mixture has no acute inhala-

tion toxicity

LC50 (Mouse): > 20 mg/l Exposure time: 4 h Test atmosphere: vapour

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg

5/11

Print Date: March 19, 2021



Skin corrosion/irritation

Components:

ethanol:

Method: OECD Test Guideline 404

Result: No skin irritation

Serious eye damage/eye irritation

Components:

ethanol:

Result: Eye irritation

Respiratory or skin sensitisation

Components:

ethanol:

Result: Does not cause skin sensitisation.

Germ cell mutagenicity

Product:

Germ cell mutagenicity -

Assessment

No data available, but unlikely to be mutagenic due to the nature of the product., Nonclinical biodistribution studies did not show distribution of the Ad26 vector to the gonads.

Components:

ethanol:

Genotoxicity in vitro : Test Type: Ames test

Species: Mutagenicity (Salmonella typhimurium - reverse mu-

tation assay) Result: negative

Carcinogenicity

Product:

Carcinogenicity - Assess-

ment

No data available, but unlikely to be carcinogenic due to the

nature of the product.

IARC Group 1: Carcinogenic to humans

ethanol 64-17-5

Group 1: Carcinogenic to humans

OSHA No component of this product present at levels greater than or

equal to 0.1% is on OSHA's list of regulated carcinogens.

6/11

Print Date: March 19, 2021



Page: 9 of 13

Version **Revision Date:** SDS Number: Date of last issue: 2021/02/09 100000015774 Date of first issue: 2020/05/05 3.5 2021/02/11

> No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP No component of this product present at levels greater than or

equal to 0.1% is identified as a known or anticipated carcinogen

by NTP.

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen

by NTP.

Reproductive toxicity

Product:

Reproductive toxicity - As-

sessment

Animal testing with another Ad26-based vaccine did not show

any effects on female fertility (male fertility is not tested).

Teratogenicity - Assessment Animal experiments with another Ad26-based vaccine did not

show teratogenic effects.

STOT - single exposure

Components:

ethanol:

Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.

STOT - repeated exposure

Product:

Remarks: No significant adverse effects were reported

Components:

ethanol:

Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Repeated dose toxicity

Product:

Remarks: Did not cause specific target organ toxicity in experimental animal studies.

Aspiration toxicity

Components:

ethanol:

No aspiration toxicity classification

7/11

Medical Information and Services Inquiry #: 02046529 Print Date: March 19, 2021



Version **Revision Date:** SDS Number: Date of last issue: 2021/02/09 Date of first issue: 2020/05/05 3.5 2021/02/11 100000015774

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

ethanol:

(Leuciscus idus (Golden orfe)): 8,140 mg/l Toxicity to fish

Exposure time: 96 h Test Type: LC50

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 9,268 - 14,221 mg/l

Exposure time: 48 h

Toxicity to algae EC50 (Chlorella pyrenoidosa (aglae)): > 100 mg/l

Exposure time: 72 h

Persistence and degradability

Components:

ethanol:

Biodegradability Biodegradation: > 70 %

Method: OECD Test Guideline 301D

Bioaccumulative potential

Components:

ethanol:

Bioaccumulation Remarks: Accumulation in aquatic organisms is unlikely.

Partition coefficient: n-

octanol/water

log Pow: -0.35 (20 °C)

Method: OECD Test Guideline 117

Mobility in soil No data available

Other adverse effects

No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues In accordance with National, Federal, State and Local regula-

Decontaminate all waste before disposal (steam sterilization,

chemical disinfection and/or incineration).

8/11

Medical Information and Services Inquiry #: 02046529 Print Date: March 19, 2021

Page: 10 of 13



Version Revision Date: SDS Number: Date of last issue: 2021/02/09 Date of first issue: 2020/05/05 3.5 2021/02/11 100000015774

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

Remarks IATA §3.9.2.5.5 COVID-19 vaccines containing GMOs or

GMMOs, including those in clinical trials, are not subject to

these Regulations.

ICAO TI PART 2, Chapter 9, Page 2-9-2 Table 2-16

IMDG-Code

Not regulated as a dangerous good

: IMDG §2.9.2.2 Remarks

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

Not applicable for product as supplied.

National Regulations

49 CFR

Not regulated as a dangerous good

SECTION 15. REGULATORY INFORMATION

US State Regulations

Massachusetts Right To Know

No components are subject to the Massachusetts Right to Know Act.

Massachusetts Right To Know

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know

water	7732-18-5
Sodium chloride (NaCl)	7647-14-5
L-Histidine	71-00-1

Pennsylvania Right To Know

water	7732-18-5
Sodium chloride (NaCl)	7647-14-5
L-Histidine	71-00-1

New York City Hazardous Substances

64-17-5 ethanol

New York City Hazardous Substances

ethanol 64-17-5

California Prop 65 , which is/are known to the State of California to cause cancer

and birth defects or other reproductive harm. For more infor-

mation go to www.P65Warnings.ca.gov.

9/11

Medical Information and Services Page: 11 of 13 Print Date: March 19, 2021

Inquiry #: 02046529



ethanol 64-17-5

, which is/are known to the State of California to cause cancer and birth defects or other reproductive harm. For more infor-

mation go to www.P65Warnings.ca.gov.

ethanol 64-17-5

Other regulations : Restricted to professional users.

Biosafety Regulations and Guidelines:

World Health Organization, Laboratory biosafety manual. - 3rd ed., ISBN 92 4 154650 6 (LC/NLM classification: QY 25)

WHO/CDS/CSR/LYO/2004.11.

U.S. Department of Health and Human Services Public Health Services, Biosafety in Microbiological and Biomedical Laboratories (BMBL) - 5th ed., HHS Publication No. (CDC) 21-1112

TSCA list

Not relevant

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk: IC50 - Half maximal inhibitory concentration: ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI -Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ -Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Sub-

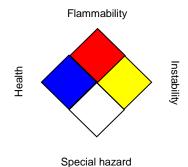
10/11



stance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Further information

NFPA:



HMIS® IV:



HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

For research use only.

This SDS received a major version update triggered by a change in Section 1.

Revision Date : 2021/02/11

Date and Number Formats

This document uses the following notation for printing dates and numbers:

 Date:
 Dec 31th, 2012
 as
 2012/12/31

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 123456,78
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