

# **Material Safety Data Sheet**

### 1. MATERIAL AND COMPANY IDENTIFICATION

**Material Name Roto-Xtend Duty Fluid** 

**Product Use** Compressor oil. **Product Code** 0017 5201 20

Manufacturer/Supplier Atlas Copco - North American Service Center

11313 Steele Creek Road, Charlotte

NC 28273, USA

**Telephone** Please contact Atlas Copco Technical Support 866-865-7995 or the

Atlas Copco Airpower office in Belgium: +32 3 870 2111 (8am-5pm CET).

**Email Contact for Safety Data Sheet**  If you have any enquiries about the content of this Material Safety Data Sheet

please email info.lubricants.cts@group.atlascopco.com.

**Emergency Telephone Number** 

Contact CHEMTREC: 800-424-9300 for leak, fire, exposure or accident

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Blend of polyolefins and additives.

### 3. HAZARDS IDENTIFICATION

**EmergencyOverview** 

Appearanceand Odour : Clear light brown.

Liquid at room temperature. Slight hydrocarbon.

**Health Hazards** Not classified as dangerous for supply or conveyance.

SafetyHazards Not classified as flammable but will burn.

**Environmental Hazards** : Not classified as dangerous for the environment.

**Health Hazards** 

**Health Hazards** 

Skin contact

Not expected to be a health hazard when used under normal conditions.

exposure.

Inhalation Under normal conditions of use, this is not expected to be a primary routeof

Prolonged or repeated skin contact without proper cleaning can clog the

pores of the skin resulting in disorders such as oil acne/folliculitis.

May cause slight irritation to eyes. **Eve Contact** Ingestion Low toxicity if swallowed.

Other Information Used oil may contain harmful impurities.

Oil acne/folliculitis signs and symptoms may include Formation of Signs and Symptoms

Black pustules and spots on the skin of exposed areas. Ingestion may result

in nausea, vomiting and/or diarrhoea.

**Aggravated Medical** condition

Pre-existing medical conditions of the following organ(s) or

organ system(s) may be aggravated by exposure to this material: Skin.

**Environmental** 

**Hazards** 

Not classified as dangerous for the environment.

Under normal conditions of use or in a foreseeable emergency, this product Additional

Information does notmeet the definition of a hazardous chemical when evaluated

according to the OSHA Hazard Communication Standard, 29 CFR 1910.1200



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### 4. FIRST AID MEASURES

**General Information**: Not expected to be a health hazard when used under normal conditions.

**Inhalation** : No treatment necessary under normal conditions of use. If symptoms persist,

obtain medical advice.

**Skin Contact** : Remove contaminated clothing. Flush exposed area with water and follow by

washing with soap if available. If persistent irritation occurs, obtain medical

attention

**Eye Contact** : Flush eye with copious quantities of water. If persistent irritation occurs,

obtain medical attention.

**Ingestion** : In general no treatment is necessary unless large quantities are swallowed,

however, get medical advice.

Advice to Physician : Treat symptomatically.

### 5. FIRE FIGHTING MEASURES

Clear fire area of all non-emergency personnel.

Flash point : Typical 235 °C / 455 °F (COC)

Upper / lower : Typical 1 - 10 %(V)

Flammability or Explosion limits

Auto ignition :  $> 320 \degree C / 608 \degree F$ 

temperature

Specific Hazards : Hazardous combustion products may include: A complexmixture of

Air borne solid and liquid particulates and gases (smoke). Carbon monoxide.

Unidentified organic and inorganic compounds.

Suitable Extinguishing

Media

Foam, water spray or fog. Dry chemical powder, carbondioxide, sand or

earth may be used for small fires only.

**Unsuitable Extinguishing:** 

Media

Do not use water in a jet.

Protective Equipment

For Firefighters

Proper protective equipment including breathing apparatus must be worn when approaching a fire in a confined space.

# **6.ACCIDENTAL RELEASE MEASURES**

Avoid contact with spilled or released material. For guidance on selection of personal protective equipment see Chapter 8 of this Material Safety Data Sheet. See Chapter 13 for information on disposal. Observe all relevant local and international regulations

**Protective measures** : Avoid contact with skin and eyes. Use appropriate containment to avoid

environmental contamination. Prevent from spreadingor entering drains, ditches or rivers by using sand, earth, or other appropriate barriers.

Clean Up Methods : Slippery when spilt. Avoid accidents, clean up immediately. Prevent from

spreading by making a barrier with sand, earth or other containment material. Reclaim liquid directly or in an absorbent. Soak up residue with an absorbent

such as clay, sand or other suitable material and dispose of properly.

Additional Advice : Local authorities should be advised if significant spillages

cannot be contained.



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### 7. HANDLING AND STORAGE

General Precautions : Use local exhaust ventilation if there is risk of inhalation of vapours, mists or

aerosols. Properly dispose of any contaminated rags or cleaning materials in order to prevent fires. Use the information in this data sheet as input to a risk assessment of local circumstances to help determine appropriate controls for

safe handling, storage and disposal of this material.

**Handling** : Avoid prolonged or repeated contact with skin. Avoid inhaling vapour and/or

mists. When handling product in drums, safety footwear should be worn and

proper handling equipment should be used. Properly dispose of any contaminated rags or cleaning materials in order to prevent fires.

Storage : Keep container tightly closed and in a cool, well-ventilated place. Use

properly labelled and closeable containers. Store at ambient temperature.

Recommended Materials: For containers or container linings, use mild steel or high density

polyethylene.

**Unsuitable Materials** : PVC.

Additional Information : Polyethylene containers should not be exposed to high

temperatures because of possible risk of distortion.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## **Occupational Exposure Limits**

Contains no components with occupational exposure limit values

## **Biological Exposure Index (BEI)**

No biological limit allocated

**Exposure Controls**: The level of protection and types of controls necessary will vary depending

upon potential exposure conditions. Select controls based on a risk

assessment of local circumstances. Appropriate measures include: Adequate ventilation to control airborne concentrations. Where material is heated, sprayed or mist formed, there is greater potential for air borne concentrations

to be generated.

Personal Protective

**Equipment** 

Personal protective equipment (PPE) should meet recommended national

standards. Check with PPE suppliers.

**Respiratory Protection** :

No respiratory protection is ordinarily requiredunder normalconditions of use. In accordance with good industrial hygienepractices, precautions should be taken to avoid breathing of material. If engineering controls do not maintain airborne concentrations to a level which is adequate to protect workerhealth,

select respiratory protection equipment suitable for the

specific conditions of use and meeting relevant legislation. Check with respiratory protective equipment suppliers. Whereair-filtering respirators are suitable, select an appropriate combination of mask and filter. Select a filter suitable for combined particulate/organic gases and vapours [boiling point]

>65 °C (149 °F)].

**Hand Protection** : Where hand contact with the product may occur the use of gloves approved

to relevant standards (e.g. Europe: EN374, US: F739) made from the following materials may provide suitable chemical protection: PVC, neoprene or nitrile rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-





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perfumed moisturizer is recommended. For continuous contact we recommend gloves with breakthrough time of more than 240 minutes with preference for > 480 minutes where suitable gloves can be identified. Forshort-term/splash protection we recommend the same, but recognise that suitable gloves offering this level of protection may not be available and in this case a lower break through time may be acceptable so long as appropriate maintenance and replacement regimes are followed. Glove thickness is not a good predictor of glove resistance to a chemical as it is dependent on the exact composition of the glove material.

**Eye Protection Protective Clothing Monitoring Methods**  Wear safety glasses or full face shield if splashes are likely to occur. Skin protection not ordinarily required beyond standard Issue work clothes. Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls. For some substances biological monitoring may also be appropriate. Validated exposure measurement methods should be applied by a competent person and samples analysed by an accredited laboratory. Examples of sources of recommended exposure measurement methods are given below or contact

the supplier. Further national methods may be available.

National Institute of Occupational Safety and Health (NIOSH), USA: Manual of Analytical Methods http://www.cdc.gov/niosh/ Occupational Safety and Health Administration (OSHA), USA: Sampling and Analytical Methods

http://www.osha.gov/

Health and Safety Executive (HSE), UK: Methods for the Determination of

Hazardous Substances http://www.hse.gov.uk/

InstitutfürArbeitsschutzDeutschenGesetzlichenUnfallversicherung (IFA),

Germany. http://www.dguv.de/inhalt/index.jsp

L'Institut National de Rechercheet de Securité, (INRS), France

http://www.inrs.fr/accueil

**Environmental Exposure**:

**Controls** 

Minimise release to the environment. An environmental assessment must be made to ensure compliance withlocal

environmental legislation.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Clear light brown. Liquid at room temperature.

Odour Slight hydrocarbon. Hq Not applicable.

Initial Boiling Point and

> 280 °C / 536 °F estimated value(s)

Boiling Range

Pour point Typical -45 °C / -49 °F Flash point Typical 235 °C / 455 °F (COC) Typical 1 - 10 %(V)

Upper /lower Flammability:

or Explosion limits

Auto-ignition temperature: > 320 °C / 608 °F

< 0,5 Pa at 20 °C / 68 °F (estimated value(s)) Vapour pressure

Typical 0.843 at 15 °C / 59 °F Specific gravity Typical 843 kg/m<sup>3</sup> at 15 °C / 59 °F Density

Water solubility Negligible.

n-octanol/water partition : > 6 (based on information on similar products)

coefficient (log Pow)

Typical 40-45 mm<sup>2</sup>/s at 40 °C / 104 °F Kinematic viscosity

> 1 (estimated value(s)) Vapour density (air=1)



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Electrical conductivity

Evaporation rate

(nBuAc=1)

This material is not expected to be a static accumulator

Data not available

### 10. STABILITY AND REACTIVITY

Stability : Stable.

**Conditions to Avoid** : Extremes of temperature and direct sunlight.

Materials to Avoid : Strong oxidising agents.

**Hazardous**: Hazardous decomposition products are not expected to Form during

**Decomposition Products**: normal storage.

## 11.TOXICOLOGICAL INFORMATION

Basis for Assessment : Information given is based on data on the components and the

toxicology of similar products.

Unless indicated otherwise, the data presented is representative of the

product as a whole, rather than for individual component(s). Expected to be of low toxicity: LD50 > 5000 mg/kg, Rat Expected to be of low toxicity: LD50 > 5000 mg/kg, Rabbit

Acute Dermal Toxicity
Acute Inhalation

**Acute Oral Toxicity** 

Toxicity

**Skin Irritation** 

Not considered to be an inhalation hazard under normalconditions of use.

Expected to be slightly irritating. Prolonged or repeated skin contact without proper cleaning can clog the pores of the skin resulting in disorders such as

oil acne/folliculitis.

**Eye Irritation** : Expected to be slightly irritating.

**Respiratory Irritation**: Inhalation of vapours or mists may cause irritation.

Sensitisation : Not expected to be a skin sensitiser.

Repeated Dose Toxicity: Not expected to be a hazard.

Mutagenicity : Not considered a mutagenic hazard.

Carcinogenicity : Not expected to be a mazard.

Not expected to be a mazard.

Not expected to be a mazard.

Not expected to be a hazard.

**Developmental Toxicity** 

Additional Information : Used oils may contain harmful impurities that have accumulated during use.

The concentration of such impurities will depend on use and they may present risks to health and the environment on disposal. ALL used oil should

be handled with caution and skin contact avoided as far as possible.

## 12. ECOLOGICAL INFORMATION

Ecotoxicological data have not been determined specifically for this product. Information given is based on a knowledge of the components and the ecotoxicology of similar products. Unless indicated otherwise, the data presented is representative of the product as a whole, rather than for individual component(s).

**Acute Toxicity** : Poorly soluble mixture. May cause physical fouling of aquatic

organisms. Expected to be practically non toxic: LL/EL/IL50 >100 mg/l (to aquatic organisms) LL/EL50 expressed as the nominal amount of product

required to prepare aqueous testextract.

Mobility : Liquid under most environmental conditions. If it enters soil, it will adsorb to

soil particles and will not be mobile. Floats on water.



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Persistence/ degradability Expected to be not readily biodegradable. Majorconstituents are expected to be inherently biodegradable, but the product contains components that may

persist in the environment.

Bioaccumulation

. Contains components with the potential to bio accumulate.

Other Adverse Effects : Product is a mixture of non-volatile components, which are not expected to

be released to air in any significant quantities. Notexpected to have ozone depletion potential, photochemical ozone creation potential or global warming

potential.

### 13. DISPOSAL CONSIDERATIONS

Material Disposal : Recover or recycle if possible. It is the responsibility of the waste generator to

determine the toxicity and physical properties of the material generated to

determine the proper waste classification and disposal methods in

compliance with applicable regulations. Do not dispose into the environment,

in drains or in water courses.

**Container Disposal** : Dispose in accordance with prevailing regulations, preferably to a recognised

collector or contractor. The competence of the collector or contractor should

be established beforehand.

**Local Legislation** : Disposal should be in accordance with applicable regional, national, and local

laws and regulations.

# 14. TRANSPORT INFORMATION

### **US Department of Transportation Classification (49CFR)**

This material is not subject to DOT regulations under 49 CFR Parts 171-180.

#### IMDG

This material is not classified as dangerous under IMDG regulations.

## IATA(Country variations may apply)

This material is either not classified as dangerous under IATA regulations or needs to follow country specific requirements.

### 15. REGULATORY INFORMATION

The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.

# **Federal Regulatory Status**

**Notification Status** 

EINECS : All components listed or polymerexempt.

TSCA : All components listed. DSL : All components listed.

### SARA Hazard Categories (311/312)

No SARA 311/312 Hazards.

# **State Regulatory Status**

# California Safe Drinking Water and Toxic Enforcement Act (Proposition 65)

This material does not contain any chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.



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## **16. OTHER INFORMATION**

NFPA Rating (Health, : 0, 1, 0

Fire, Reactivity)

SDS Version Number : 2.3

SDS Effective Date : 01.03.2014

SDS Revisions : A vertical bar (|) in the left margin indicates an amendment from the

previous version.

SDS Regulation : The content and format of this MSDS is in accordance with the

OSHA Hazard Communication Standard, 29 CFR 1910.1200.

SDS Distribution : The information in this document should be made available to all who may

handle the product.

Disclaimer : The information contained herein is based on our current knowledge of the

underlying data and is intended to describe the product for the purpose of health, safety and environmental requirements only. No warranty or guarantee is expressed or implied regarding the accuracy of these data or

the results to be obtained from the use of the product.