

New! 3M™ Novec™ Contact Cleaner/Lubricant

Introduction

New 3M™ Novec™ Contact Cleaner/Lubricant quickly penetrates and flushes away light oils and greases from sensitive electrical and electronic equipment including: avionics, electro-mechanical devices, electrical contacts, connectors and switches. Effectively removes fluorinated oils and greases. It also leaves a thin protective silicone coating. Novec Contact Cleaner/Lubricant is compatible with plastics and other materials of construction.

- Cleans and lubricates
- Non-flammable
- Excellent plastics compatibility
- Non conductive, non-corrosive
- Meets MIL-PRF 29608A (Class L)
- Low toxicity
- Low Global Warming Potential
- Contains no HCFCs, HFCs, nPB or HAPs

Plastics Compatibility

Material	Compatibility	Material	Compatibility
ABS	Excellent	PMMA	Excellent*
Nylon	Excellent	POM	Excellent
Lexan®/Polycarbonate	Excellent	PP	Excellent
HDPE	Excellent	PS	Excellent
CDPE	Excellent	PTFE	Excellent
C.E. Phenolic	Excellent	PVC	Excellent

* May damage stressed acrylics. Test before use.



3M™ Novec™ Contact Cleaner/Lubricant cleans sensitive electrical/electronic equipment and leaves a thin protective silicone coating.

Environmental, Health and Safety Information

Properties	Novec Contact Cleaner Plus/Lubricant	HCFC-141b	Previous MIL-PRF 29608
Ozone Depletion Potential ¹ (ODP)	0	0.1	0.10
Global Warming Potential ² (GWP)	71	725	5000
Flashpoint	None	None	None
Exposure Guideline (ppmV, 8 hr time weighted average)	200	500	500

¹CFC-11 = 1.0

²GWP-100 year integration time horizon, CO₂ = 1.0

Regulatory Information

RoHS/WEEE Compliant	Yes
NSF Registration	Not yet registered
Meets CA VOC Limits	Yes – Silicone-based multi-purpose lubricant
Meets OTC VOC Limits	Yes – Silicone-based multi-purpose lubricant
NSN (National Stock Number)	6850-01-597-1998

Qualifications and Approvals

MIL-PRF 29608A (Class L)	Performance specification – Electrical contact cleaning and lubricating compounds
--------------------------	---

Physical Properties

Evaporation Rate (n-Butyl Acetate=1)	>1
Surface Tension (dynes/cm ²)	15.3
Specific Gravity (g/ml)	1.37
Dielectric Strength	>25kV
Shelf Life	1 year*

*Initial estimate; measurement is pending.

More 3M™ Novec™ Aerosol Cleaners

3M™ Novec™
Contact Cleaner

3M™ Novec™
Contact Cleaner Plus

3M™ Novec™
Electronic Degreaser

3M™ Novec™
Flux Remover

Safety and Handling

3M™ Novec™ Contact Cleaner/Lubricant is nonflammable. When used as directed, in its intended applications, The product has a wide margin of safety between anticipated exposures and the exposure guideline. Before using this product, be sure to read and follow all precautions and directions for use contained in the product label and Material Safety Data Sheet, which is available from your local 3M representative upon request.

Transportation Classification

Ground: Consumer Commodity ORM-D **Air:** Aerosols, Nonflammable, 2.2, UN1950

Resources

3M™ Novec™ Aerosol Cleaners are supported by global sales, technical and customer service resources, with fully-staffed technical service laboratories in the U.S., Europe, Japan, Latin America and Southeast Asia. Users benefit from 3M's broad technology base and continuing attention to product development, performance, safety and environmental issues.

For additional technical information on Novec Contact Cleaner/Lubricant in the United States, call 3M Customer Service, 800 810 8513.

For information on additional 3M fluids, coatings and other chemical products for the electronics industry, visit our web site at: www.3M.com/novec

The 3M™ Novec™ Brand Family

The Novec brand is the hallmark for a variety of patented 3M products. Although each has its own unique formula and performance properties, all Novec products are designed in common to address the need for safe, effective, sustainable solutions in industry-specific applications. These include precision and electronics cleaning, heat transfer, fire protection, lubricant deposition and several specialty chemical applications.

3M™ Novec™ Engineered Fluids • 3M™ Novec™ Aerosol Cleaners • 3M™ Novec™ 1230 Fire Protection Fluid • 3M™ Novec™ Electronic Coatings • 3M™ Novec™ Electronic Surfactants

United States	China	Europe	Japan	Korea	Singapore	Taiwan
3M Electronics Markets Materials Division 800 810 8513	3M China Ltd. 86 21 6275 3535	3M Belgium N.V. 32 3 250 7521	Sumitomo 3M Limited 813 3709 8250	3M Korea Limited 82 2 3771 4114	3M Singapore Pte. Ltd. 65 454 8611	3M Taiwan Limited 886 2 2704 9011

Product Use: All statements, technical information and recommendations contained in this document are based on tests or experience that 3M believes are reliable. However, many factors beyond 3M's control can affect the use and performance of a 3M product in a particular application, including conditions under which the product is used and the time and environmental conditions in which the product is expected to perform. Since these factors are uniquely within the user's knowledge and control, it is essential that the user evaluate the 3M product to determine whether it is fit for a particular purpose and suitable for the user's method of application.

Warranty and Limited Remedy: Unless stated otherwise in 3M's product literature, packaging inserts or product packaging for individual products, 3M warrants that each 3M product meets the applicable specifications at the time 3M ships the product. Individual products may have additional or different warranties as stated on product literature, package inserts or product packages. 3M MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY IMPLIED WARRANTY ARISING OUT OF A COURSE OF DEALING, CUSTOM OR USAGE OF TRADE. User is responsible for determining whether the 3M product is fit for a particular purpose and suitable for user's application. If the 3M product is defective within the warranty period, your exclusive remedy and 3M's and seller's sole obligation will be, at 3M's option, to replace the product or refund the purchase price.

Limitation Of Liability: Except where prohibited by law, 3M and seller will not be liable for any loss or damage arising from the 3M product, whether direct, indirect, special, incidental, or consequential regardless of the legal theory asserted, including warranty, contract, negligence or strict liability.



Electronics Markets Materials Division

3M Center, Building 224-3N-11
St. Paul, MN 55144-1000
www.3M.com/novec

Please recycle. Printed in USA.
Issued: 7/11 © 3M 2011.
All rights reserved. 8142HB
60-5002-0503-8

Lexan is a registered trademark of SABIC Innovative Plastics.
3M and Novec are trademarks of 3M.
Used under license by 3M subsidiaries and affiliates.

Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:

moschip.ru

moschip.ru_4

moschip.ru_6

moschip.ru_9