



# Handling Procedure of TOTSUCAT<sup>®</sup> non passivated Catalysts



***IMPORTANT : READ BEFORE HANDLING***

## 1. Introduction

TOTSUCAT<sup>®</sup> off-site presulfided catalysts contain metallic sulfides, which are the active components of hydroprocessing reactions. These sulfides are not stable in air and need a passivation treatment for an easy handling under air. Totsucat products are passivated for most of the applications. In very specific cases, the passivation treatment is omitted as either it is not needed, or not compatible with the application.

## 2. General recommendations

TOTSUCAT<sup>®</sup> Off-Site Presulfided catalysts are supplied to the customer in steel drums with sealed plastic liners. The catalyst should remain stored this way until the customer is ready to load the catalyst into the reactor. At the time of loading, the catalyst may be transferred from the drums into a hopper and then loaded directly into the reactor using an acceptable sock-loading or dense-loading procedure. Storage of off-site presulfided catalyst in any container, other than the plastic-lined drum, should be avoided at all times. If the catalyst must be transferred to other vessels, to facilitate reactor loading, it should be done only at the actual time of loading.

In case of delivery of presulfided catalyst in bulk metallic containers, the storage must be limited in time. Containers must be kept closed during prolonged storage.

Although off-site presulfided catalyst is in itself not pyrophoric, under certain conditions it can react with oxygen. Prolonged exposure of the catalysts to air should be avoided. Off-site presulfided catalyst is considered a self-heating material, according to UN regulations, and belongs to UN class 4.2 - 3190.

***It is mandatory to load unpassivated TOTSUCAT<sup>®</sup> catalysts under nitrogen.***

It is recommended that personnel involved in handling and loading of the catalyst be properly clothed, e.g. long-sleeved shirts and gloves. Furthermore, it is recommended that supplied breathing air be used by any person who must handle the catalyst or enter an enclosed area containing the catalyst, e.g. inside the reactor. Sound refinery practice requires communication with personnel inside the reactor.

Refer to the material safety data sheet supplied with the presulfided catalyst and read the caution labels on the drums.

TOTSUCAT<sup>®</sup> presulfided catalyst can be stored in the reactor under hydrogen atmosphere without any problem, at any temperature, for any time.



This information is not to be taken as a warranty or representation for which EURECAT assumes legal responsibility. It is offered solely for your consideration.